

LabC8-SR ACTION Instruction Manual rel 1.2 (02/20)

- Symbols -

Capricorn RC

L/R

Symmetrical
Mounting

2x

Assemble as many
times as specified

1 2
3 4

Assemble in the
specified order

Note:
TEXT....

Be Careful

WARNING

This radio control model is not toy.

First time builders should seek the advice of experienced modellers before beginning assembly and/or if they do not fully understand any part of the construction. We highly advise to read the instruction manual before assembly, and to always keep it at hand for reference. Take care before operating this model; you are responsible for its assembly and safe operation. The extreme performance of this model could be underestimated by inexperienced drivers and could damage objects and/or people. Assemble this kit only in places out of children's reach!

CAPRICORN RC is not responsible for any damage or harm caused by improper use or assembly.

CAPRICORN RC and its distribution network are not responsible for any damage caused by shipping or handling.

Eventual parts missing from the kit or flawed must be reported within two weeks of purchase to your local hobby shop or distributor. For best performance, we highly advise to only use original authentic CAPRICORN RC parts.

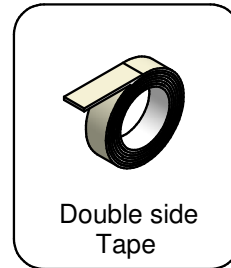
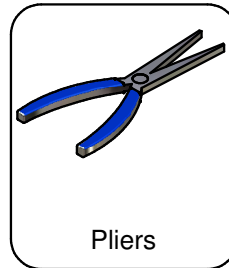
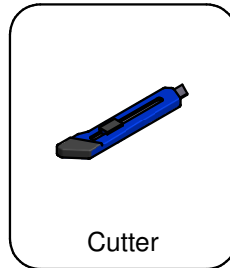
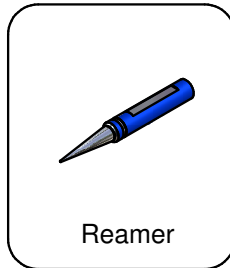
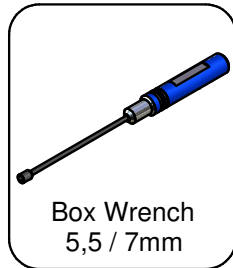
For customer support and service please contact your local hobby shop or agent from whom you purchased this item.

Contents of box may slightly differ from the pictures shown. Construction tools, body, tires, radio system and servo, ESC, motor and battery pack are NOT INCLUDED unless otherwise stated.

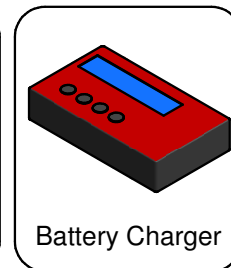
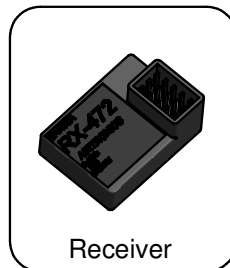
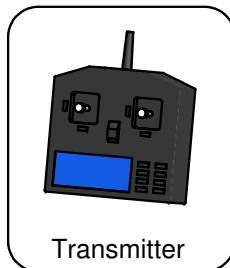
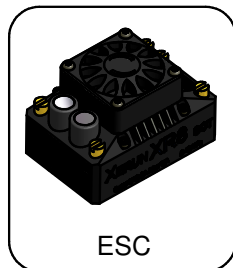
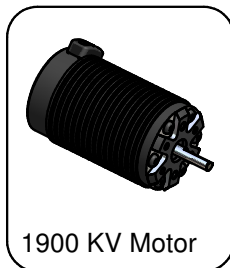
Made in Italy



Tools needed for assembly (NOT INCLUDED)



Parts for model completion and Start (NOT INCLUDED)

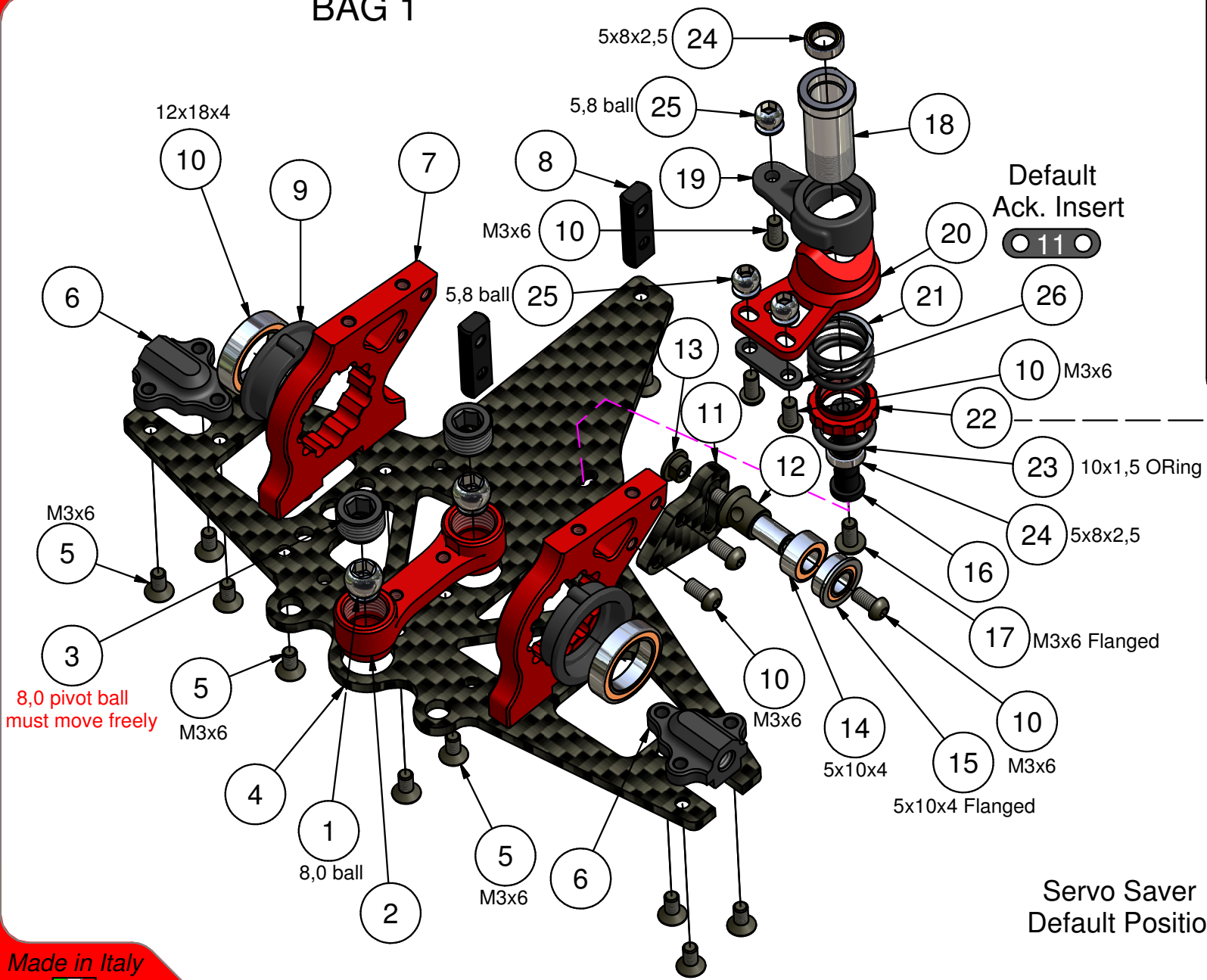


Also required: Tires - Polycarbonat body

Step 1.0

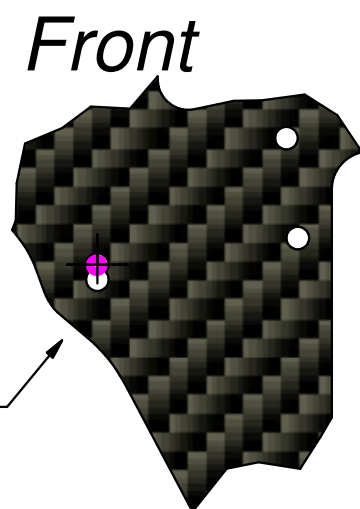
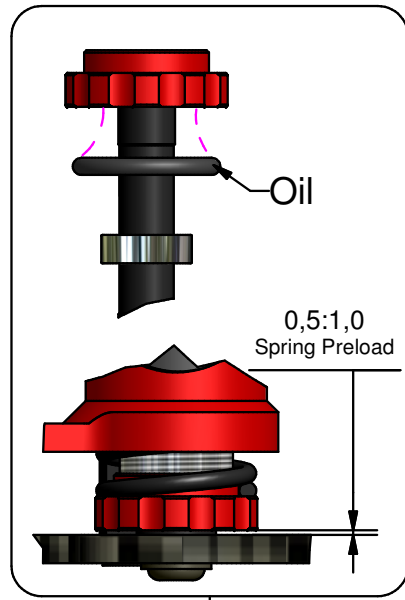
- Front Assembly - BAG 1

Capricorn RC



8,0 pivot ball must move freely

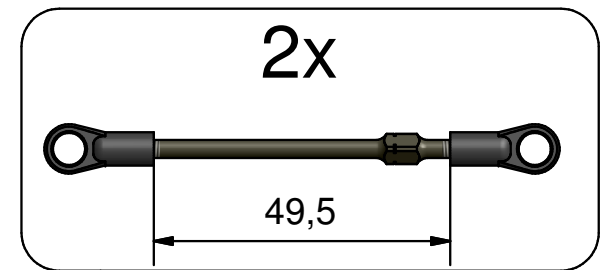
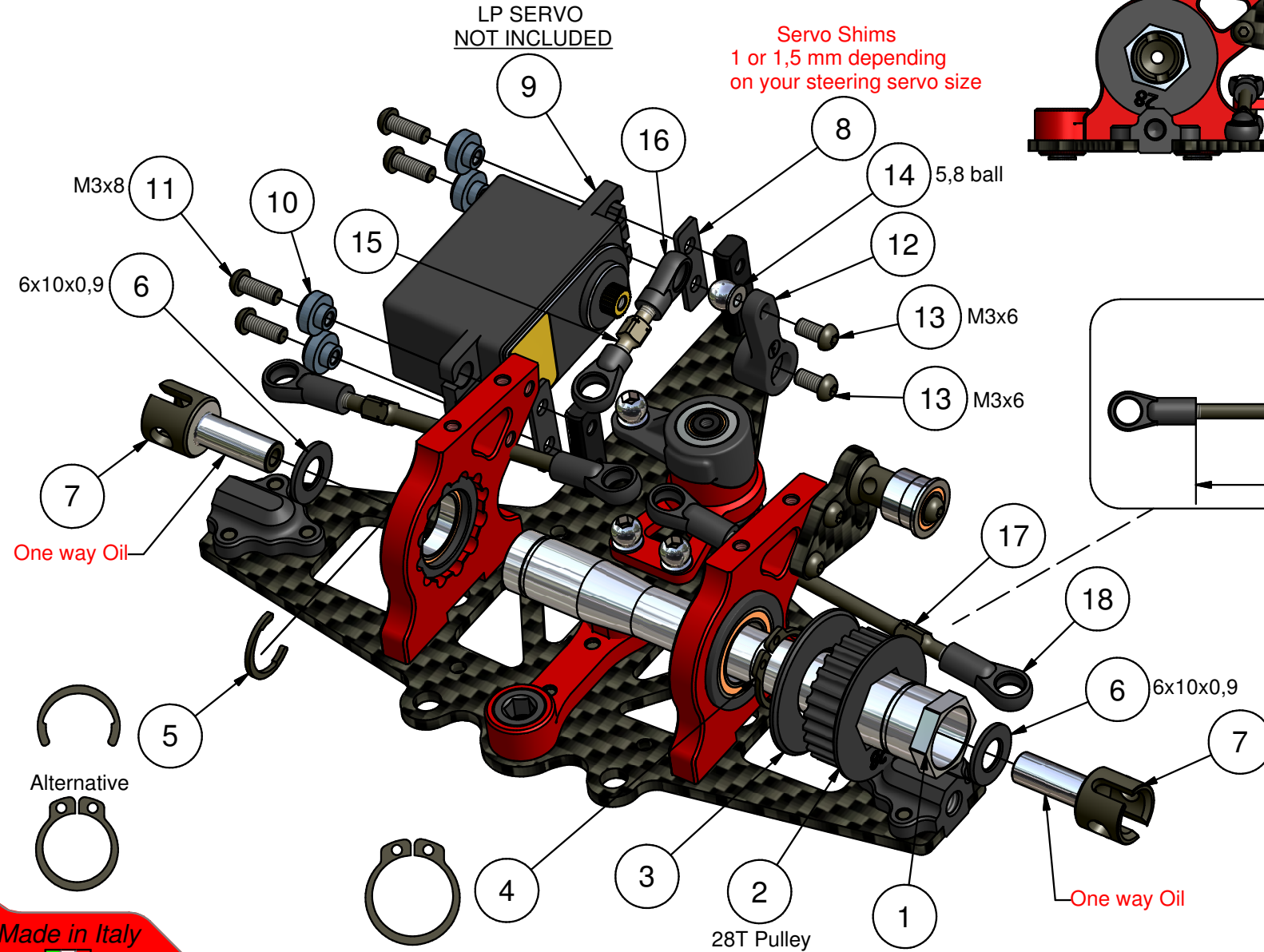
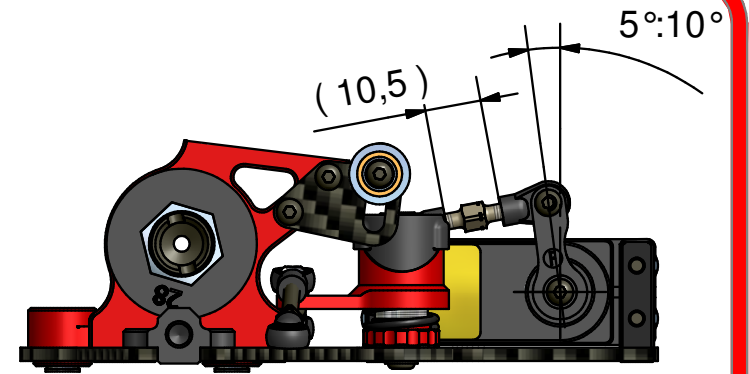
Default Ack. Insert



Step 1.1

- Front Assembly - BAG 1

Capricorn RC



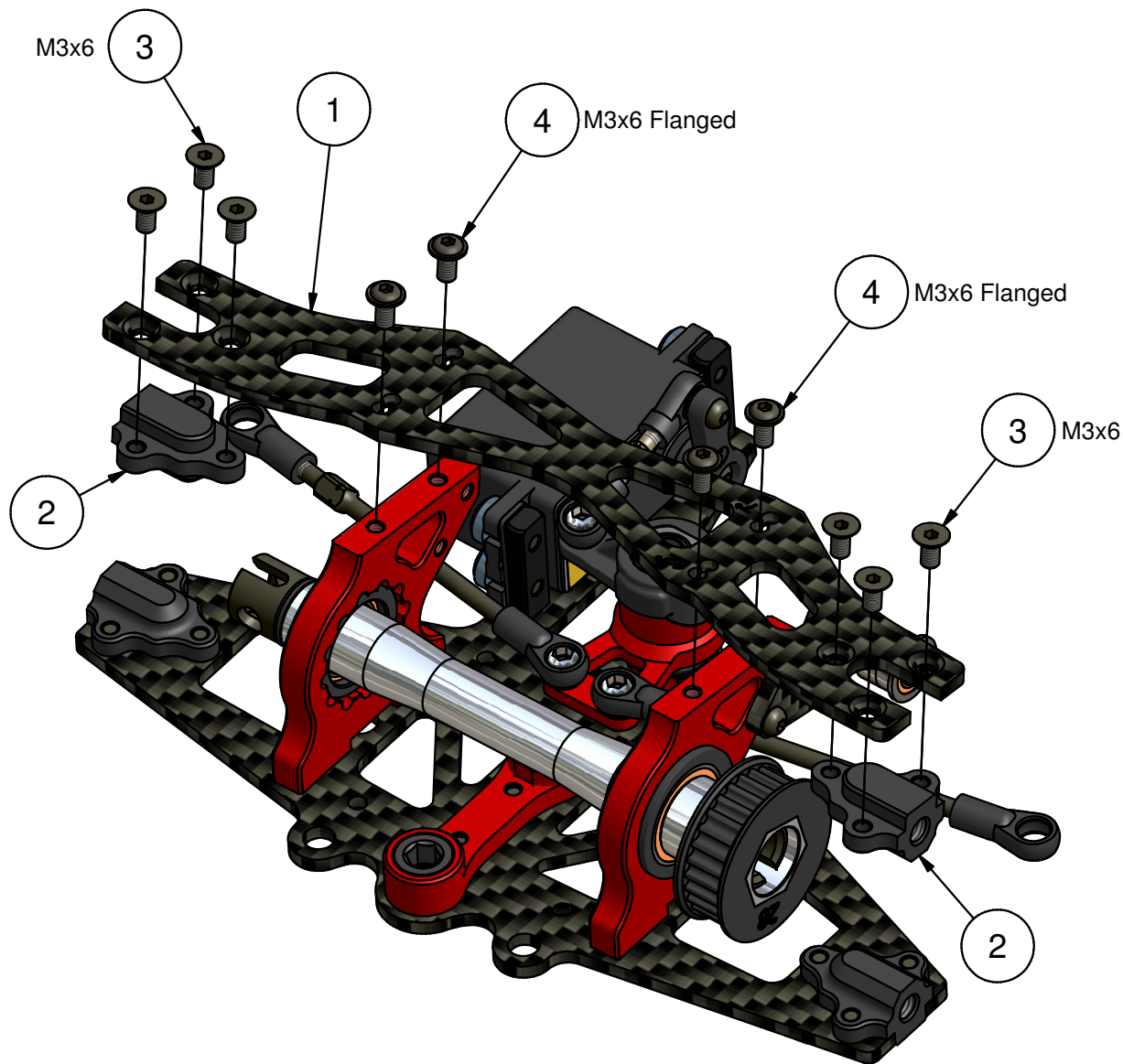
Made in Italy



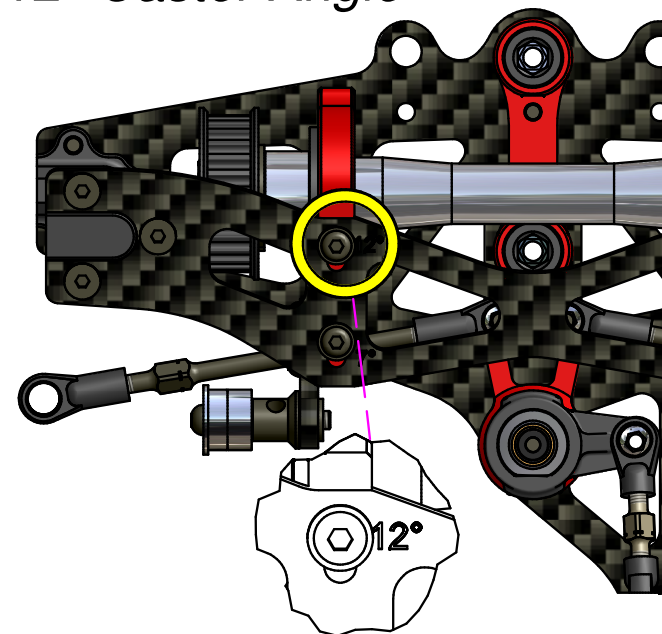
Step 1.2

- Front Assembly - BAG 1

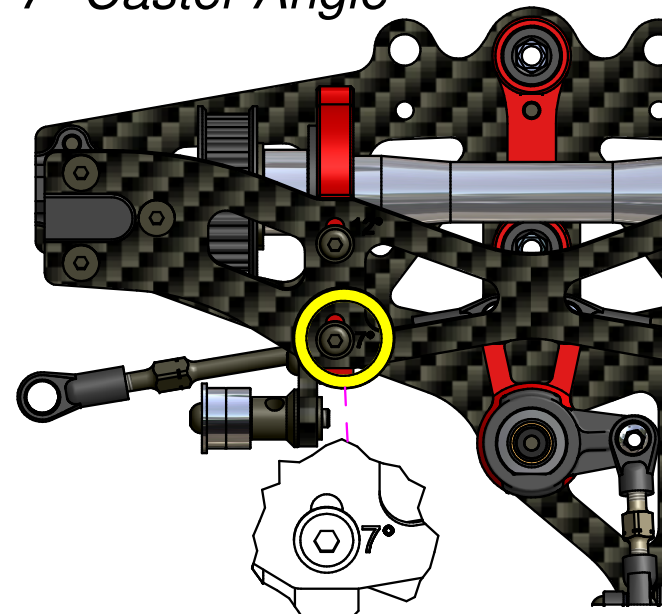
Capricorn RC



12° Caster Angle



7° Caster Angle



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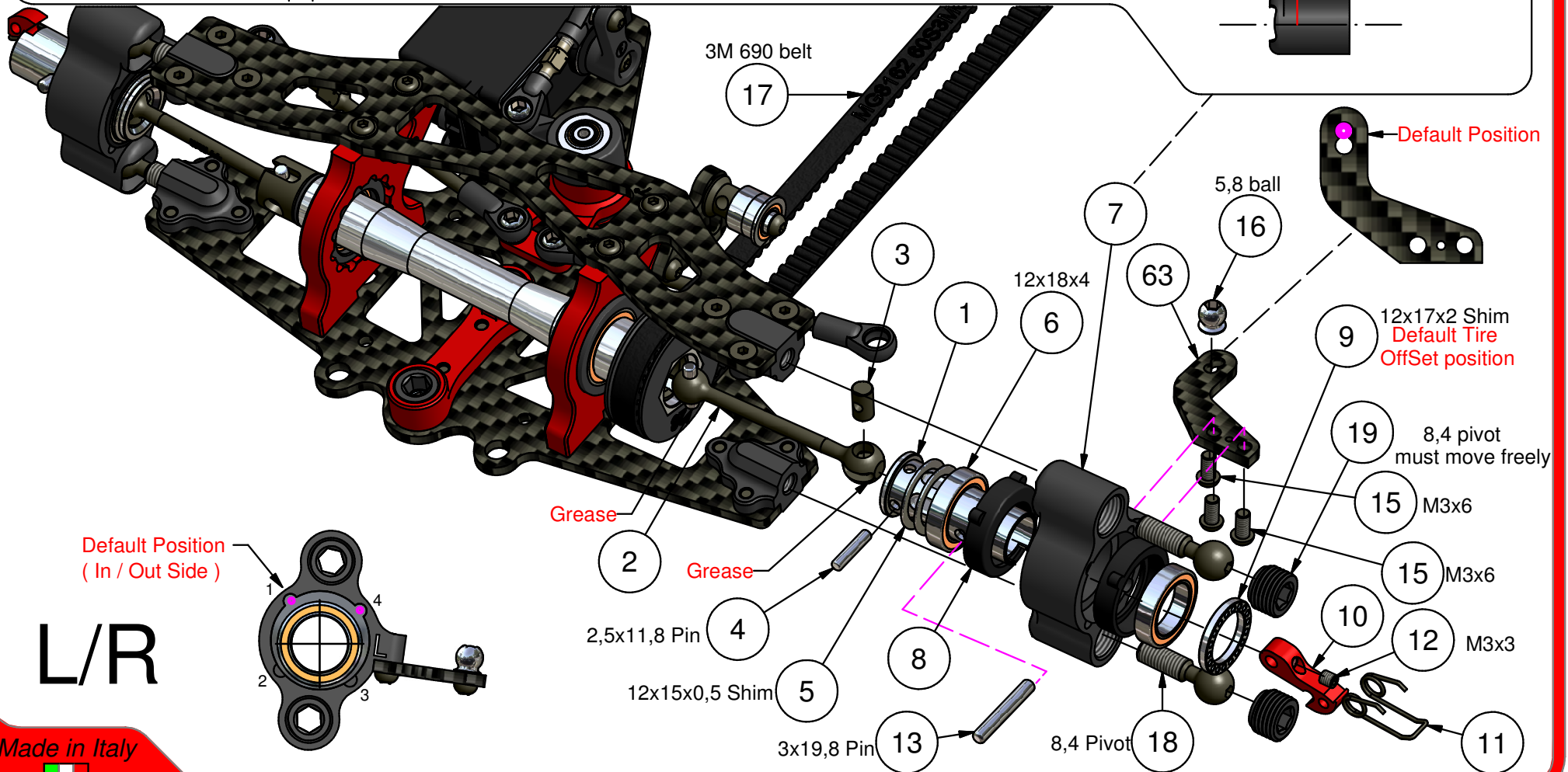
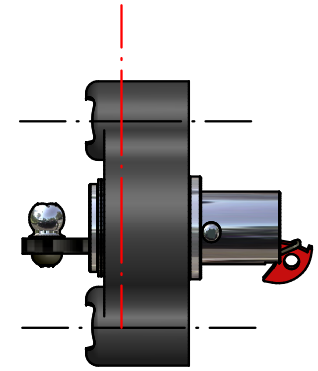
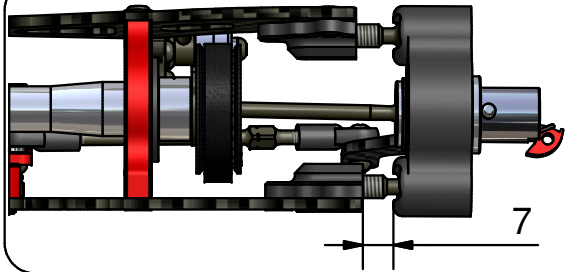
Step 2.0

**- Front Assembly -
BAG 2**

Capricorn RC

NEW STEERING HUB KING-PIN 0

L/R



L/R

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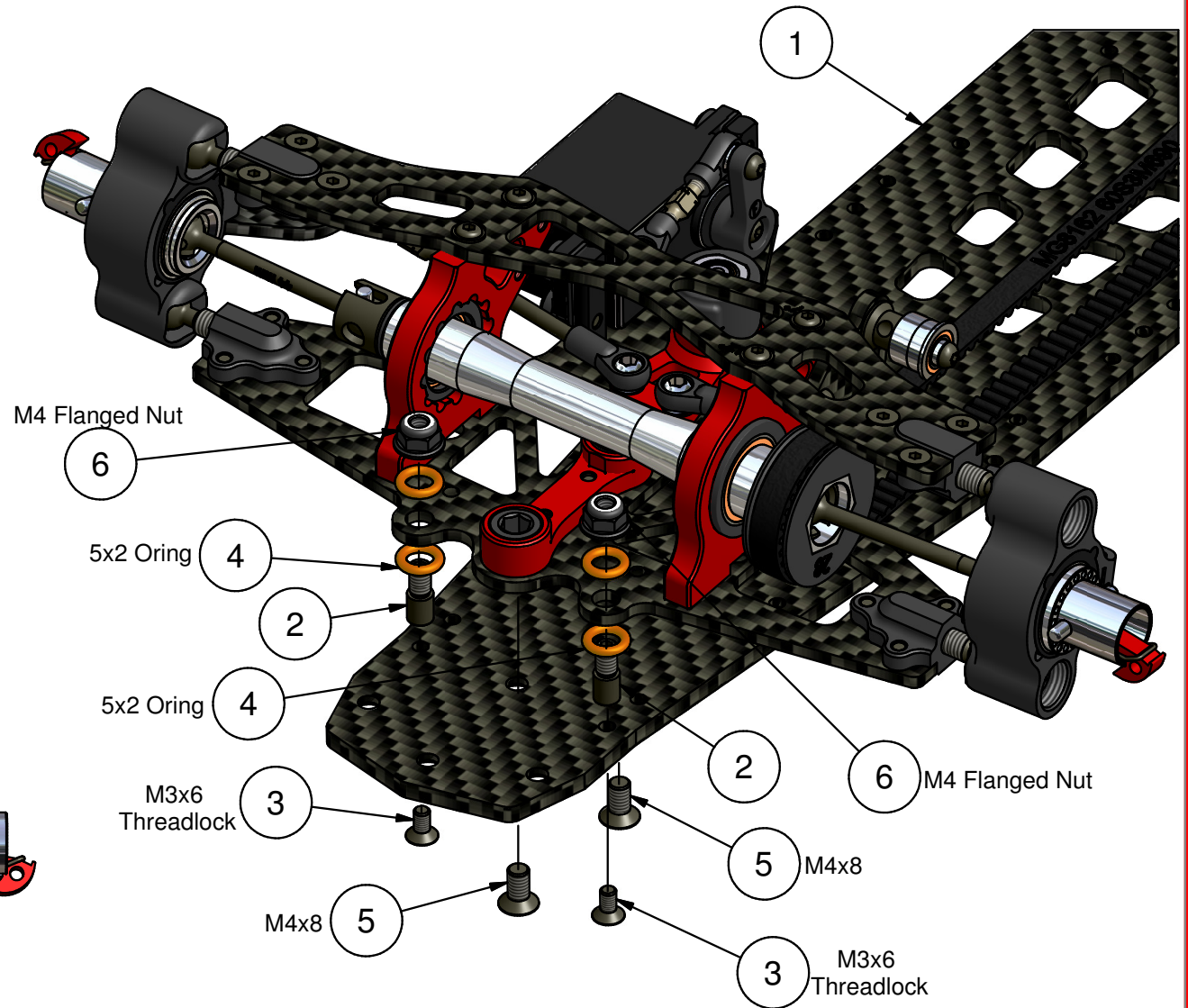
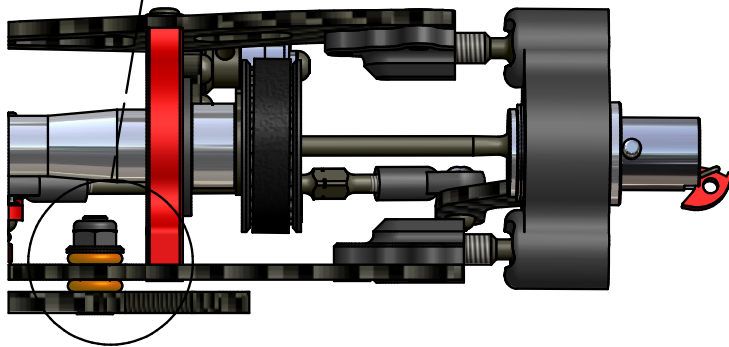
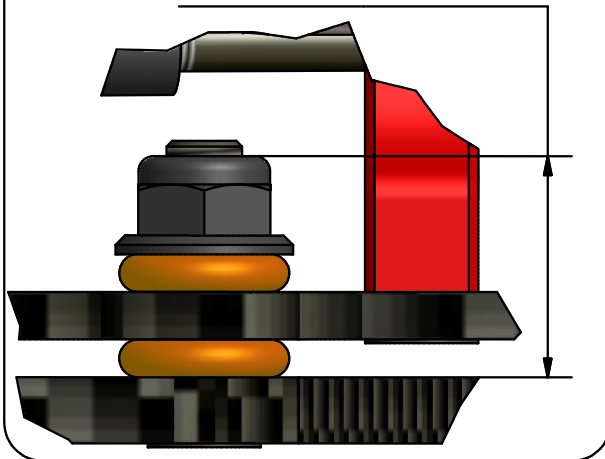
Step 2.1

- Front Assembly - BAG 2

Capricorn RC

Front End Rigidity Adjustment

HARD  12,0 mm  SOFT
Default Setting



L/R

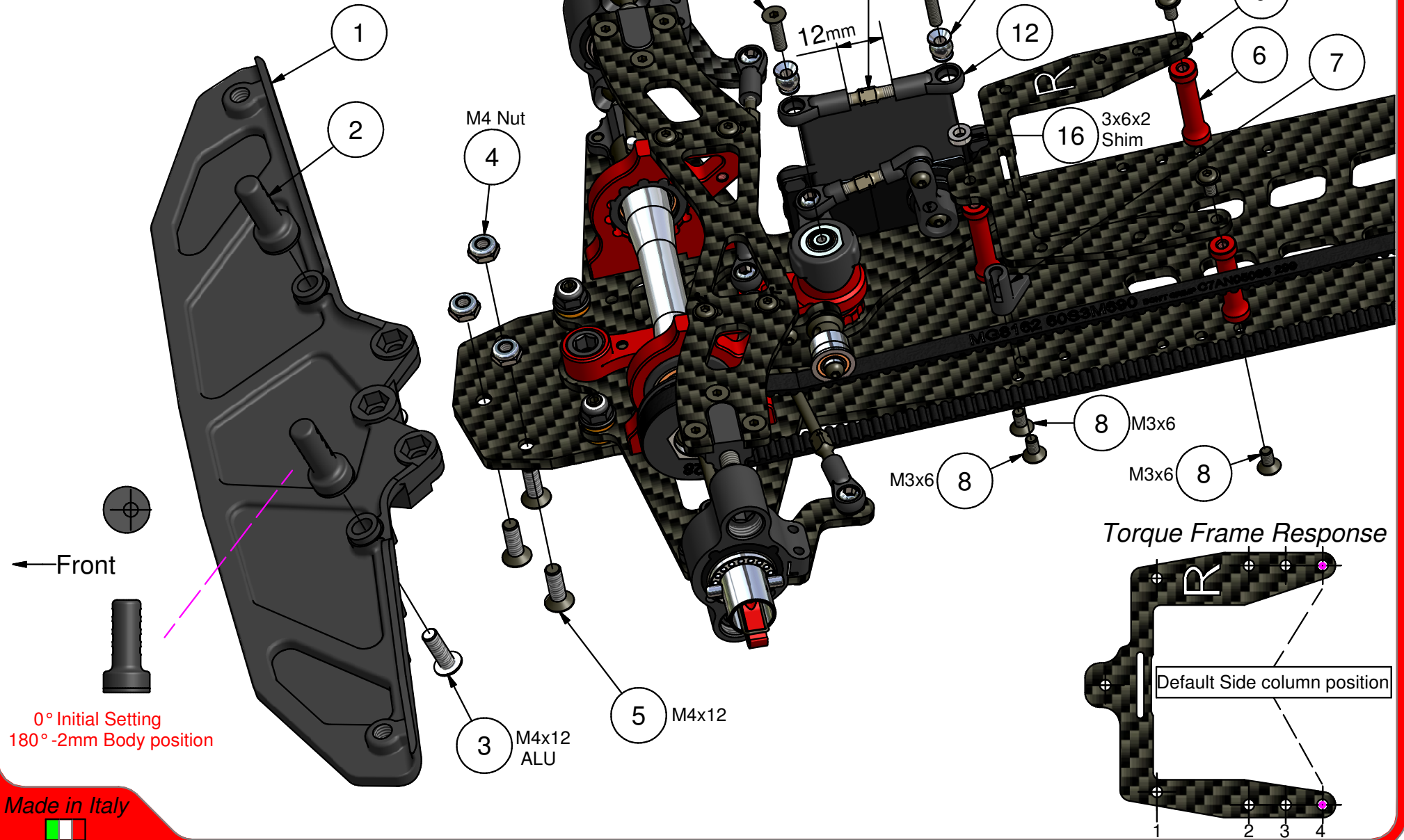
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Step 2.2

- Front Assembly - BAG 2

Capricorn RC



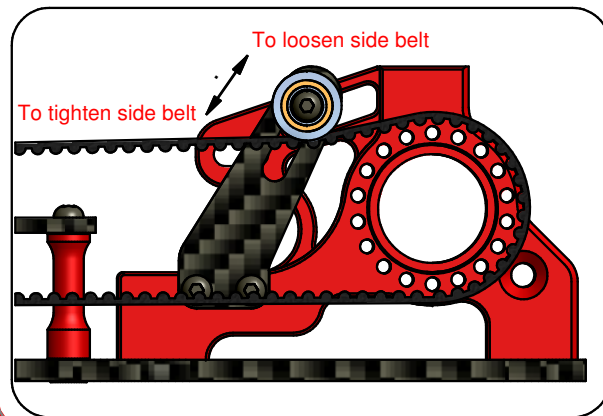
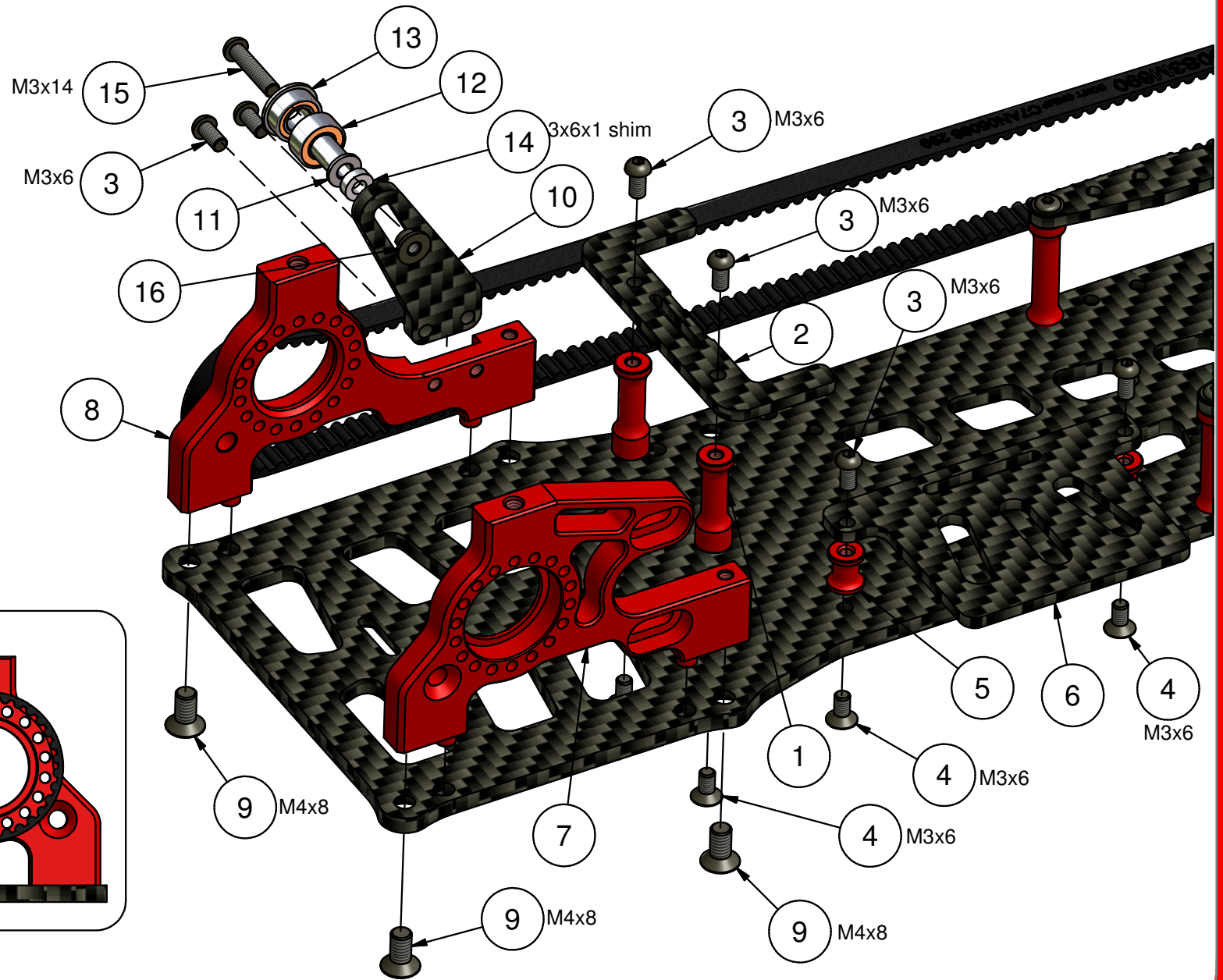
Made in Italy



Step 3.0

- Rear Assembly - BAG 3

Capricorn RC



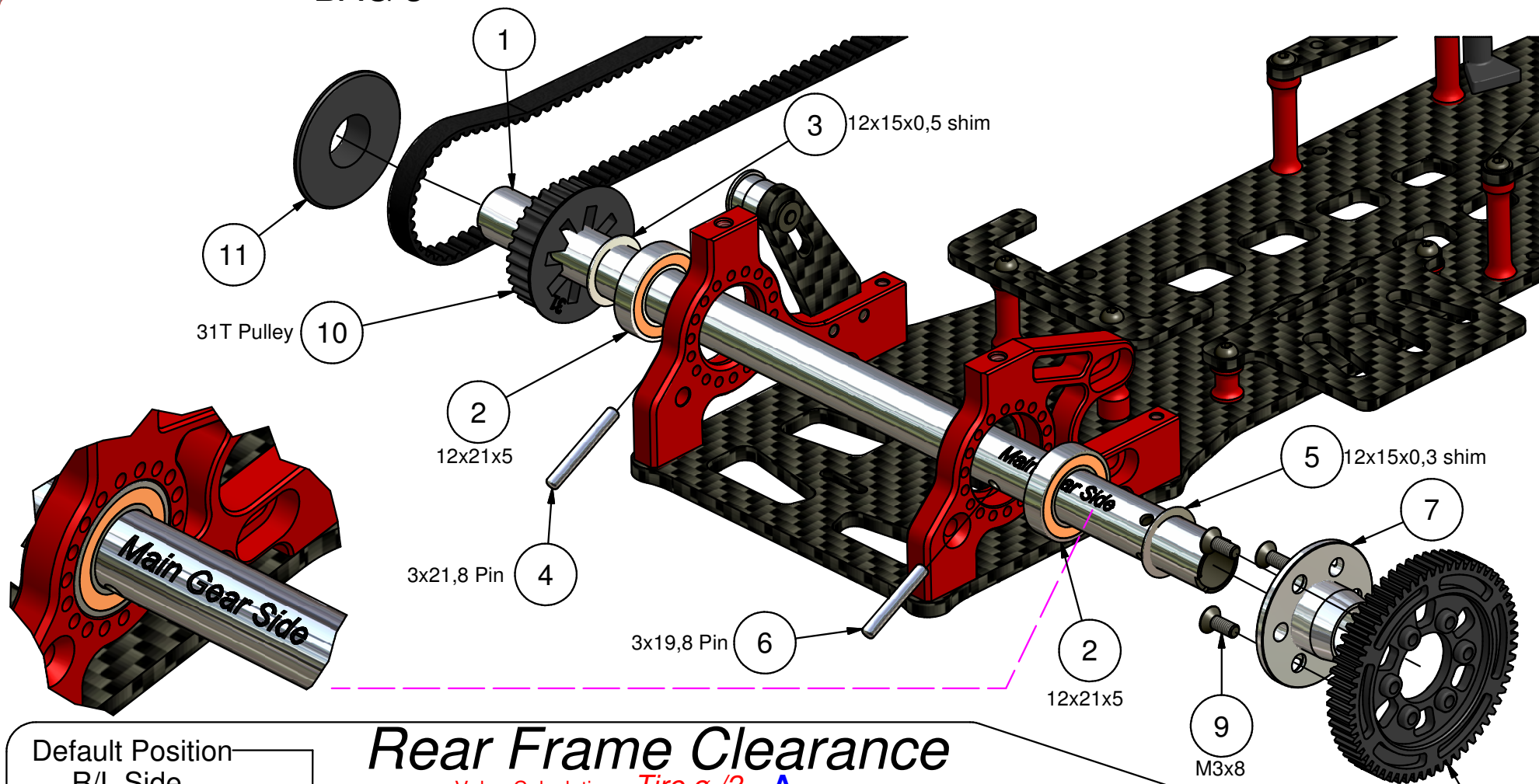
Made in Italy



Step 3.1

- Rear Assembly -
BAG 3

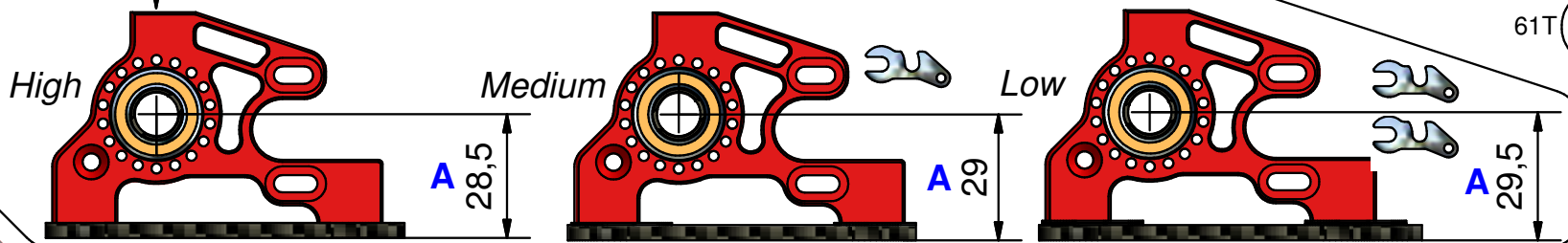
Capricorn RC



Default Position
R/L Side

Rear Frame Clearance

Value Calculation = $\frac{\text{Tire } \phi}{2} - A$



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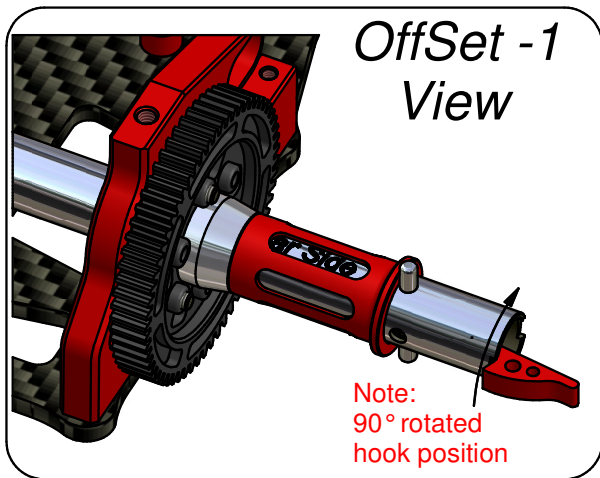
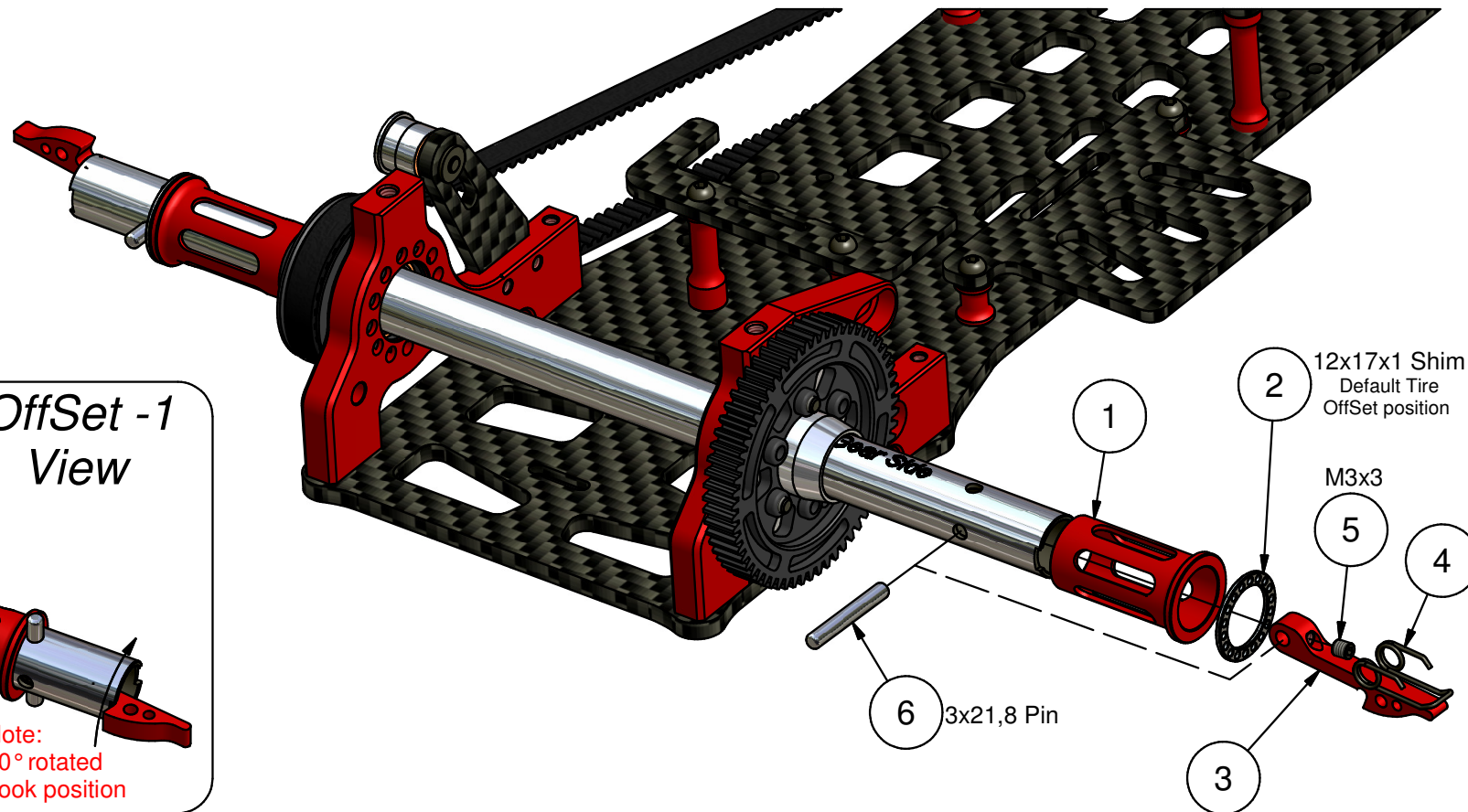


Step 3.2

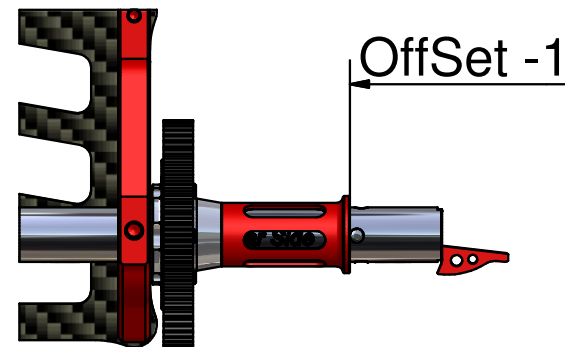
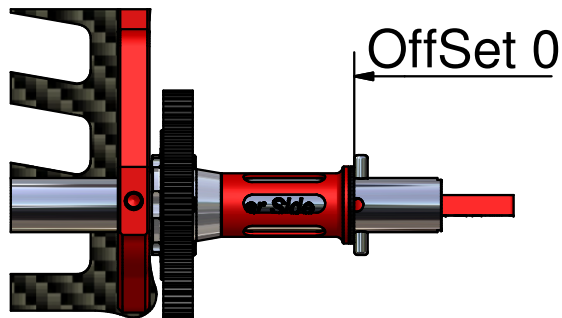
- Rear Assembly - BAG 3

Capricorn RC

L/R



Rear Track



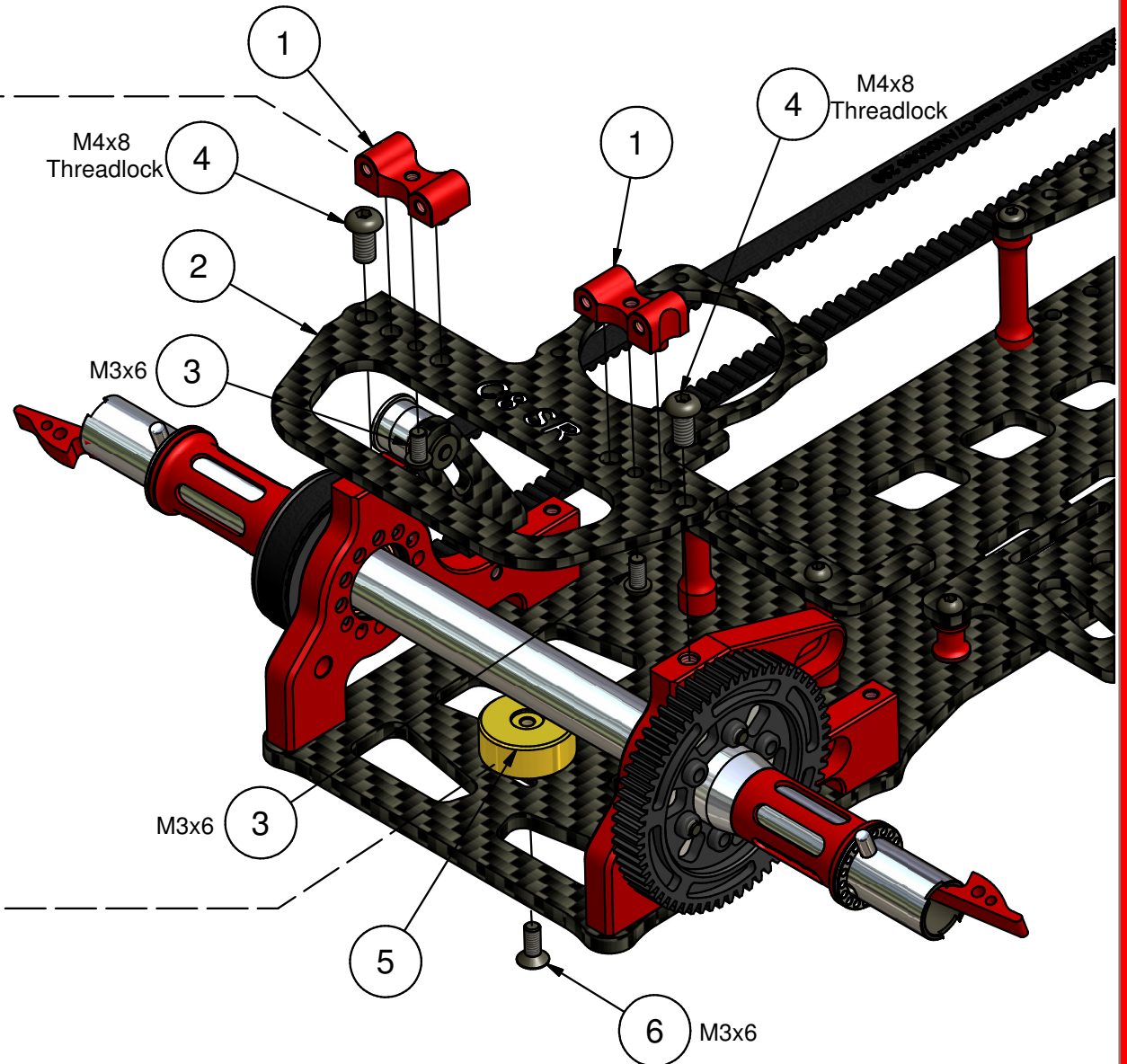
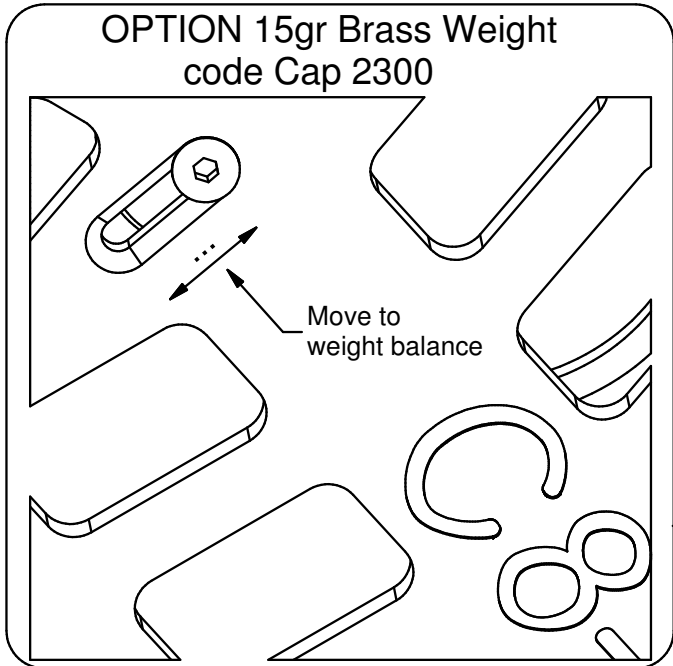
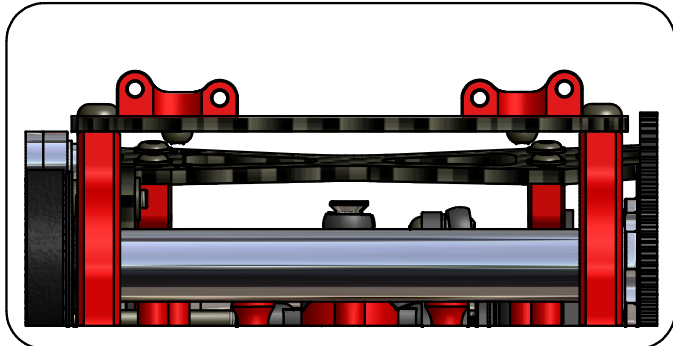
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Step 4.0

- Rear Assembly - BAG 4

Capricorn RC



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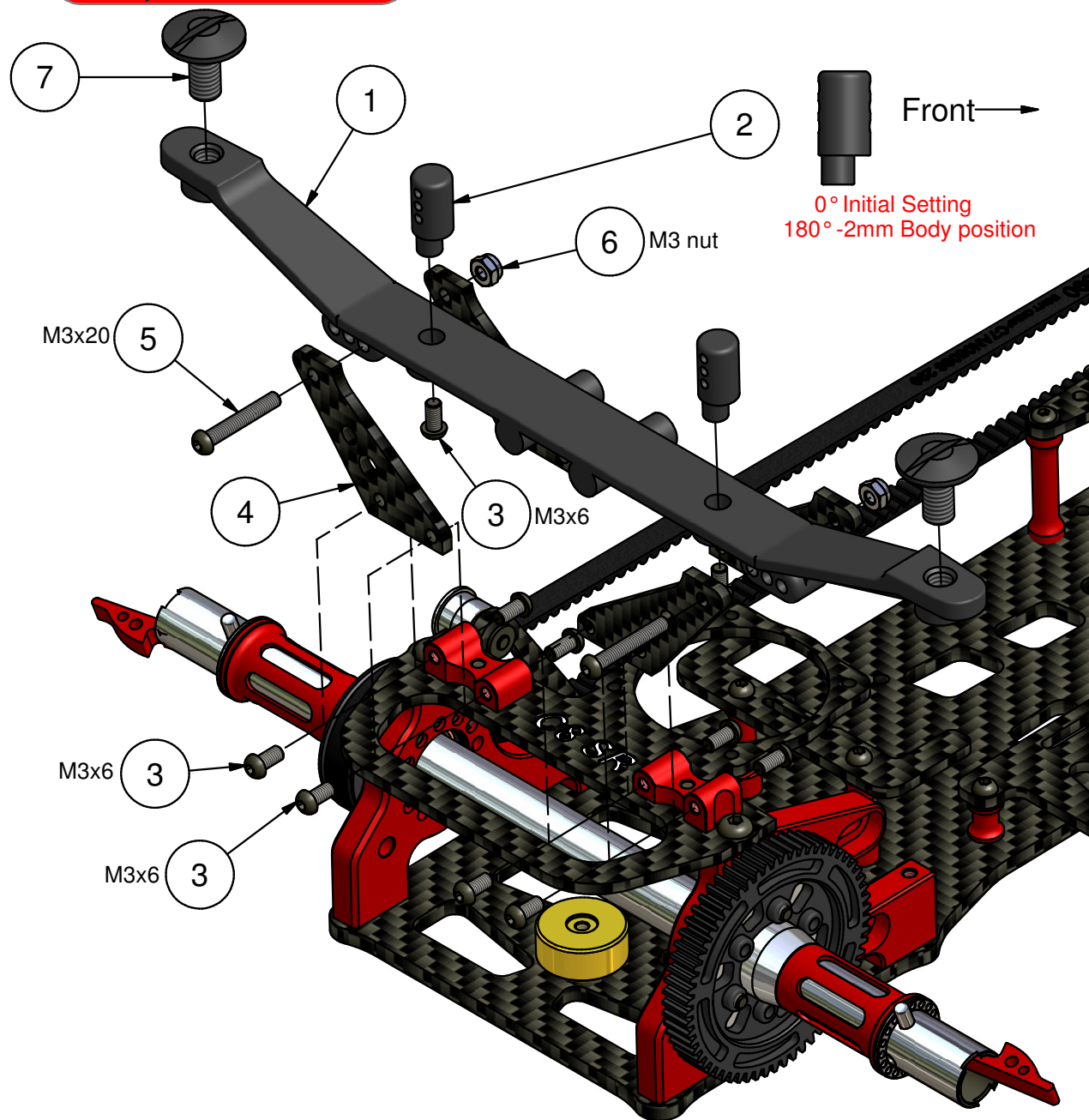
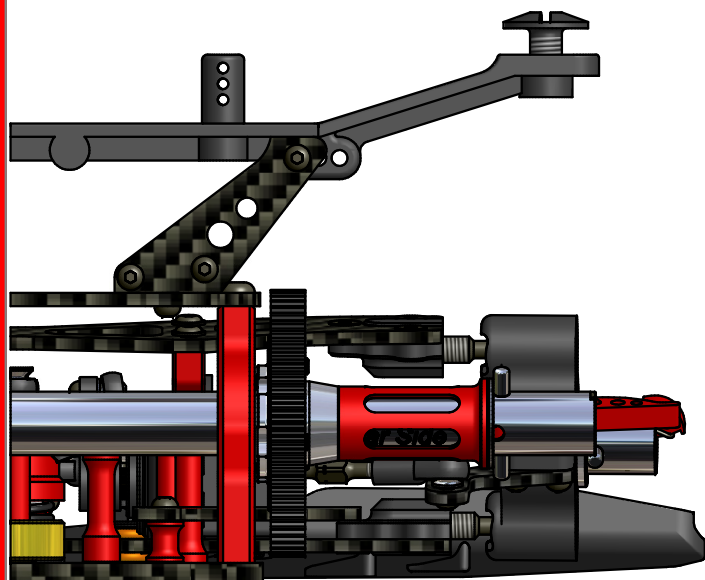


Step 4.1

- Rear Assembly - BAG 4

Capricorn RC

L/R



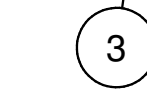
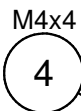
Made in Italy



Step 4.2 - Electronics Assembly - BAG 4

Capricorn RC

1900kv Motor
NOT INCLUDED



Pinion
NOT INCLUDED

BAG 4

6 M3x12 4S 5200mA Li-Po Battery
NOT INCLUDED

40x40 FAN
NOT INCLUDED

7 Fiber Tape
NOT INCLUDED

Receiver
NOT INCLUDED



9 4S 140A ESC
NOT INCLUDED

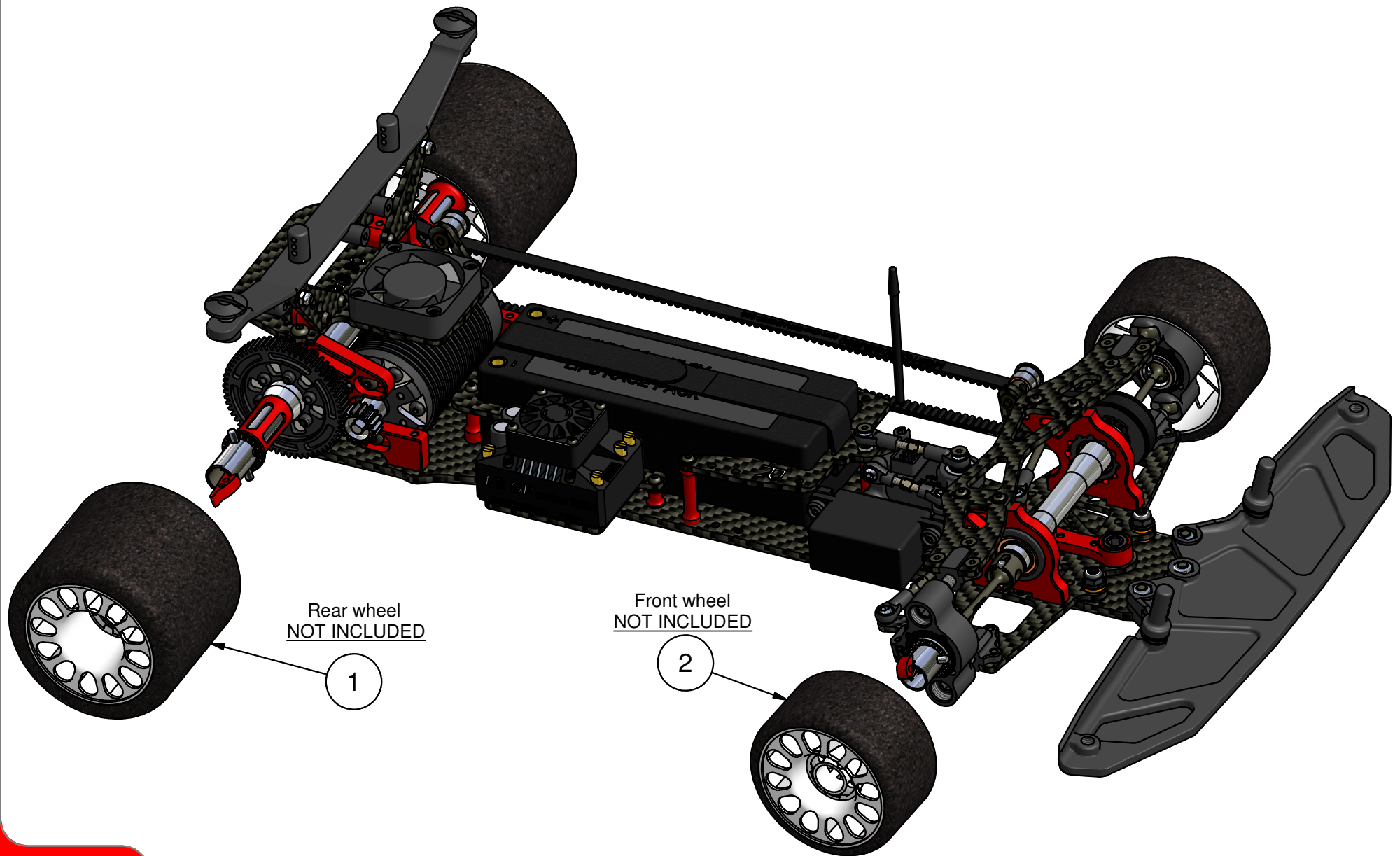
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Step 4.3

- Final Assembly -

Capricorn RC



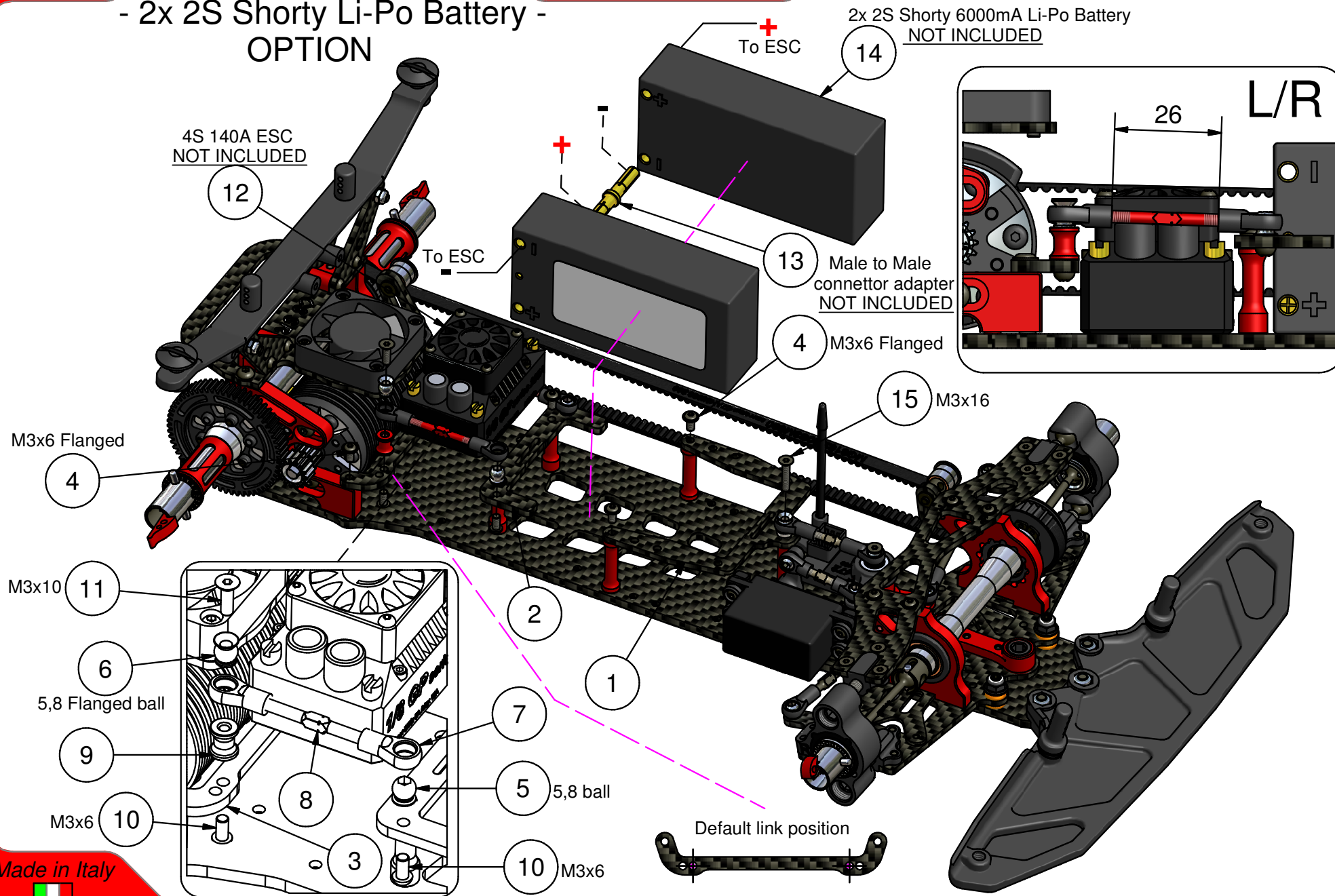
Made in Italy



- 2x 2S Shorty Li-Po Battery - OPTION

2x 2S Shorty 6000mA Li-Po Battery
NOT INCLUDED

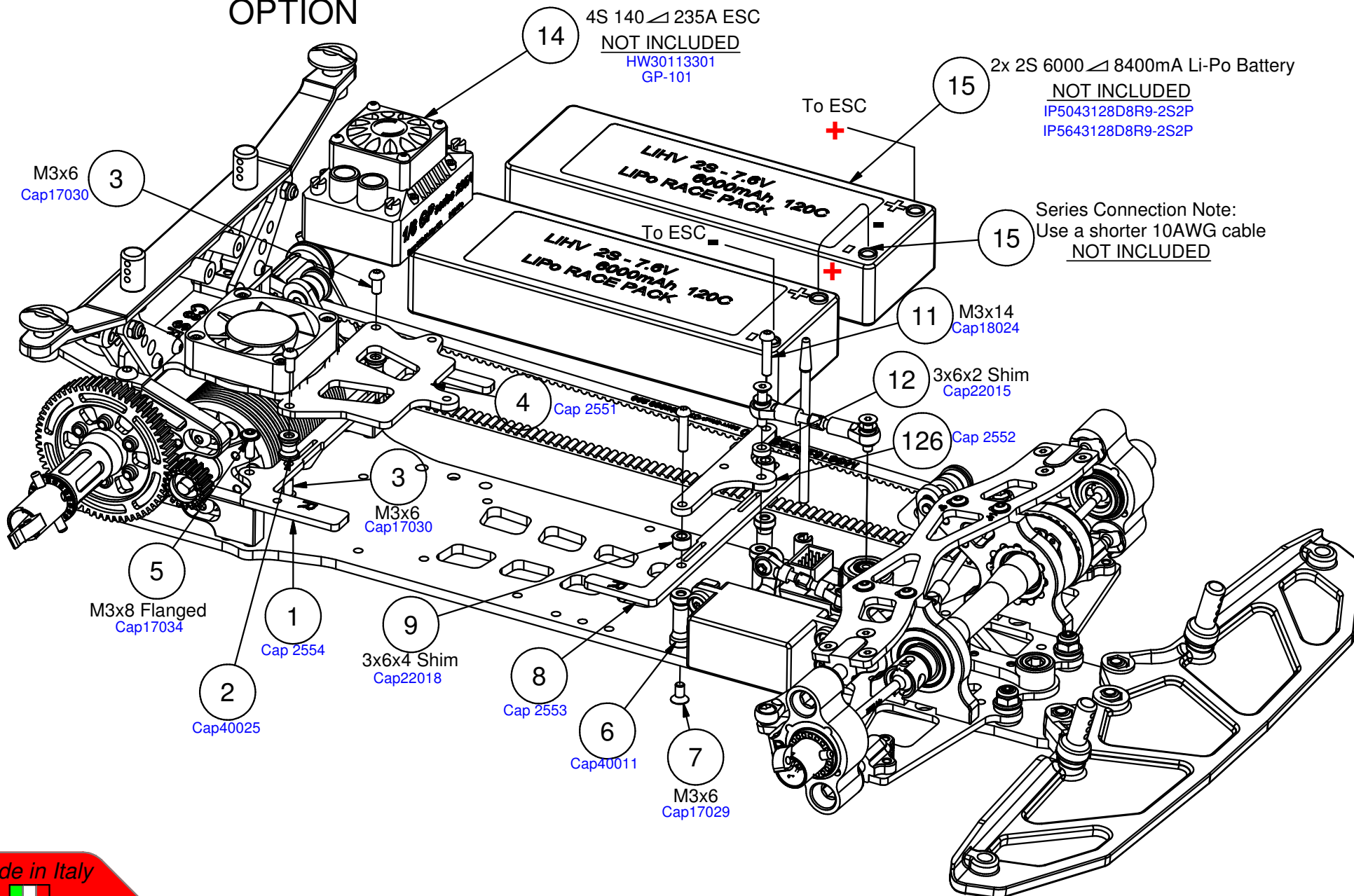
4S 140A ESC
NOT INCLUDED



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- Side to Side Li-Po Battery - OPTION

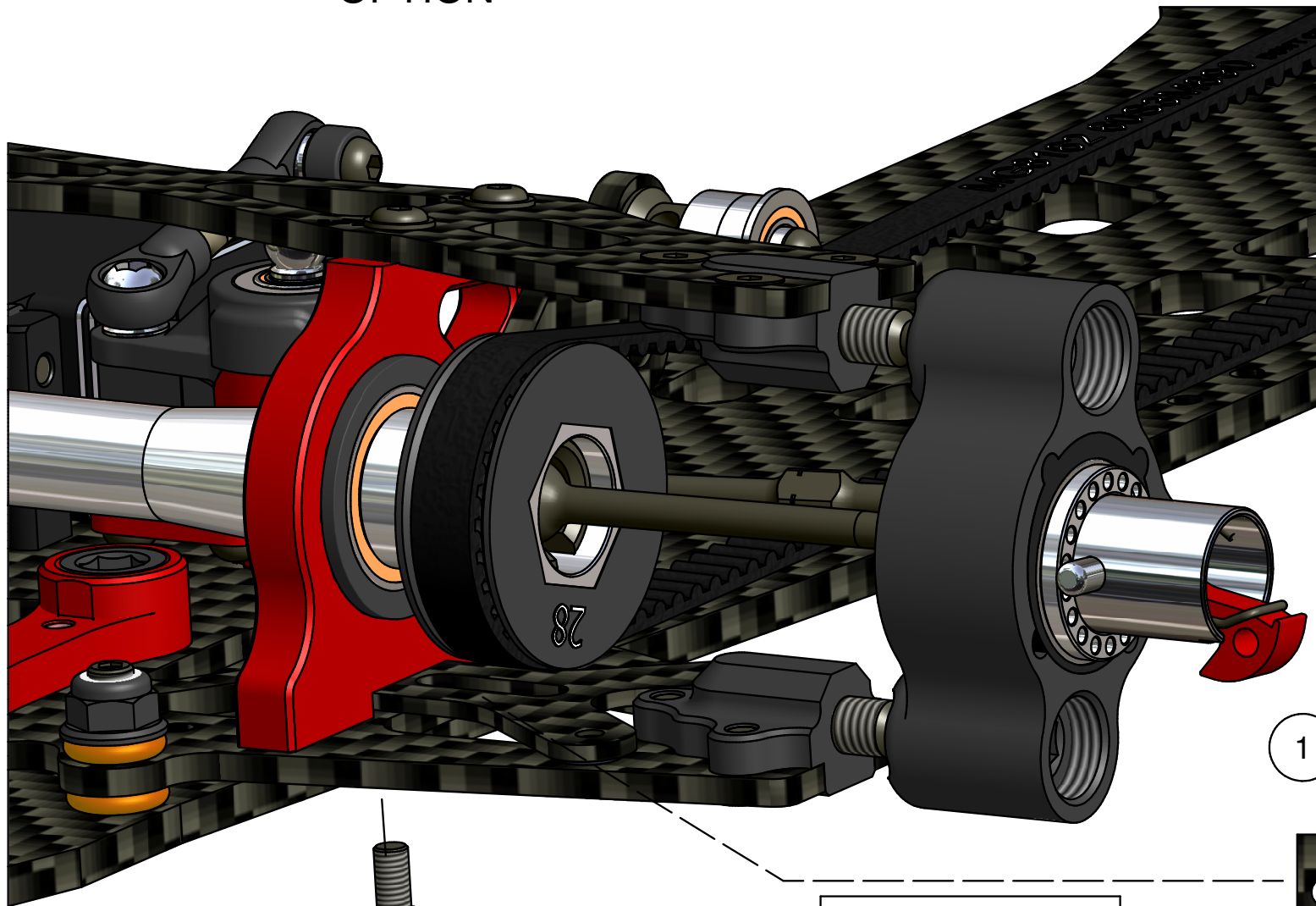


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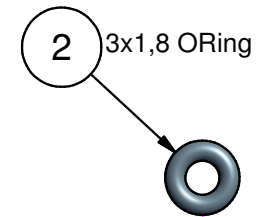


- Front Stiffness link -
OPTION

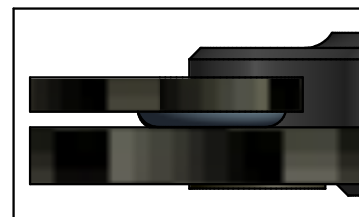
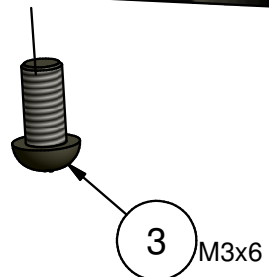
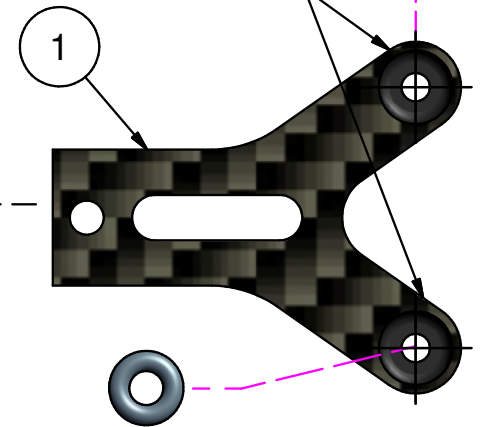
Capricorn RC



L/R



CA Glue

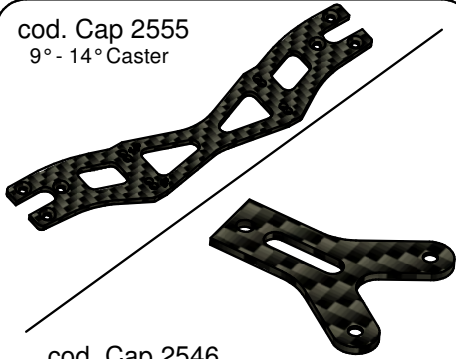


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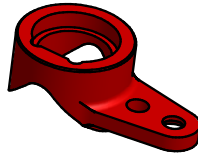

- Option Parts -

Capricorn RC

cod. Cap 2555
9° - 14° Caster

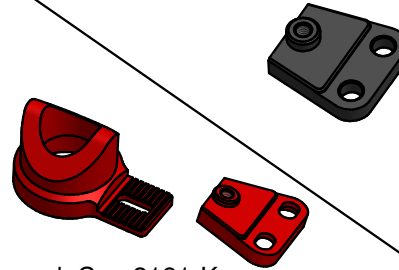


cod. Cap 2546

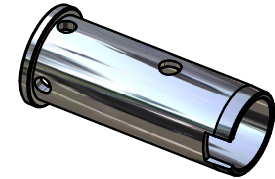


cod. Cap18027

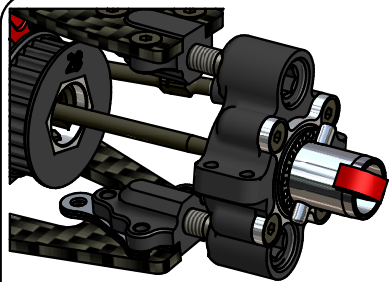
cod. Cap 2280-K
Ack 8,5



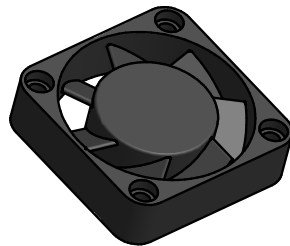
cod. Cap 2181-K



cod. Cap 2248



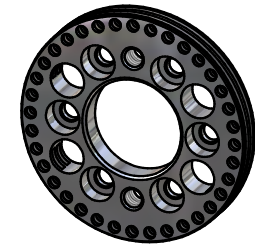
Front High Precision HUB Kit
cod. Cap 2567



40x40 FAN
cod. One90134



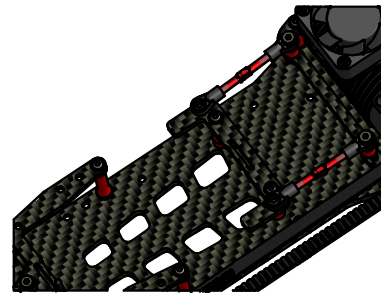
60T - 62T
cod. Cap 2050B-60
cod. Cap 2050B-62



cod. Cap 2558-K



cod. Cap 2541 15T
cod. Cap 2542 16T
cod. Cap 2543 17T
cod. Cap 2544 18T



2S Shorty Li-Po Conversion
cod. Cap 2502-K

Aluminium screws



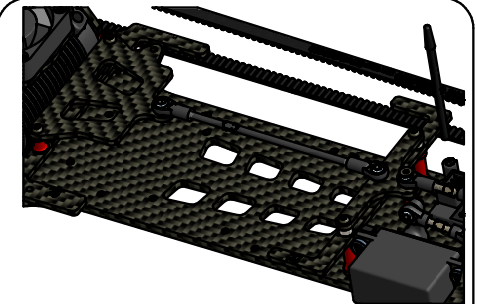
M3x6mm cod. Cap29268
M3x8mm cod. Cap29269
M3x10mm cod. Cap29270
M3x14mm cod. Cap29272



M3x5mm cod. One29276
M3x6mm cod. One29277
M3x8mm cod. One29278
M3x10mm cod. One29279



M4x8mm cod. Cap 2350
M4x10mm cod. Cap 2351
M4x12mm cod. Cap 2352
M4x14mm cod. Cap 2353



Side to Side Li-Po Conversion
cod. Cap 2556-K

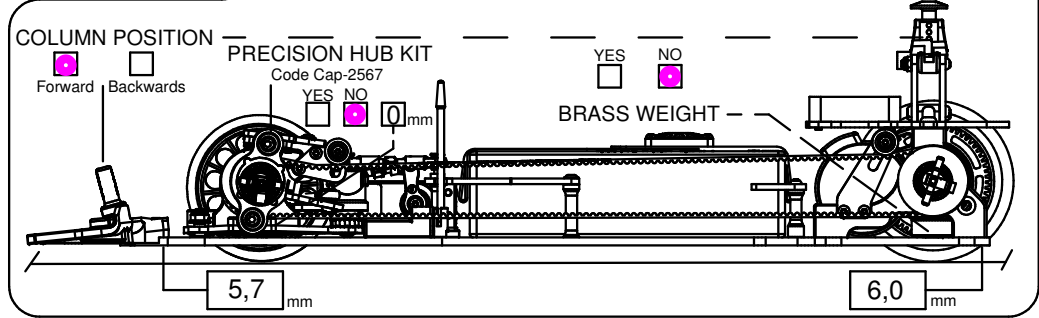
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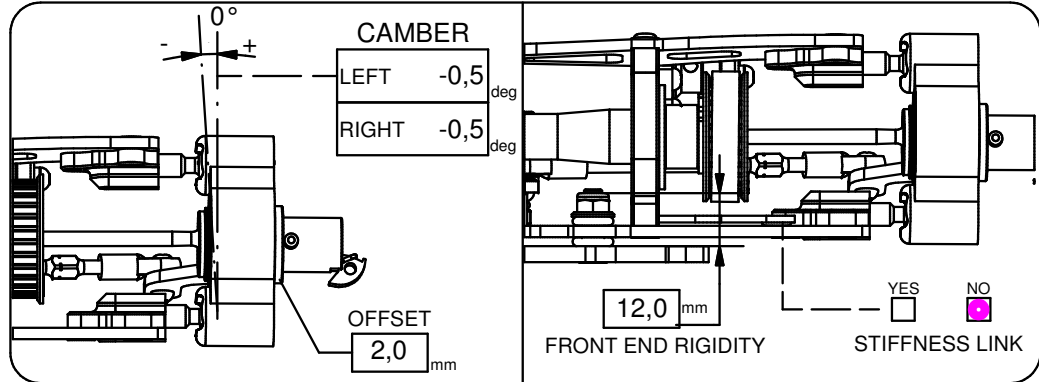
C8 SR DEFAULT SET-UP SHEET

Capricorn RC

RACE	<input type="text"/>	DATE	<input type="text"/>
TRACK	<input type="text"/>	QUALIFYING POSITION	<input type="text"/>
NAME	<input type="text"/>	BEST LAP	<input type="text"/> /sec
CITY/ COUNTRY	<input type="text"/>	RACE POSITION	<input type="text"/>
CONTACT	<input type="text"/>	RACE LENGTH	<input type="text"/> /min



TRACK SURFACE	<input type="checkbox"/> CARPET	<input checked="" type="checkbox"/> ASPHALT	
TRACK LAYOUT	<input type="checkbox"/> TECHNICAL	<input checked="" type="checkbox"/> MIXED	<input type="checkbox"/> FAST
TRACTION	<input type="checkbox"/> LOW	<input checked="" type="checkbox"/> MEDIUM	<input type="checkbox"/> HIGH



AXLE POSITION	ACK	CASTER	TURBO	TURBO DELAY
<input type="text" value="1"/> FRONT	<input type="text" value="0"/> REAR SHIM	<input type="text" value="11"/> mm	<input type="text" value="10"/> %	<input type="text" value="0,3"/> /sec
		<input type="checkbox"/> 7° <input checked="" type="checkbox"/> 9° <input type="checkbox"/> 12° <input type="checkbox"/> 14°		

FRONT TIRES	REAR
<input type="text" value="32"/> BRAND	<input type="text" value="35"/> BRAND
<input type="text" value="64"/> SHORE	<input type="text" value="69"/> SHORE
<input type="text" value="252"/> DIAMETER	<input type="text" value="263"/> DIAMETER
<input type="text" value="252"/> TRACK WIDTH	<input type="text" value="263"/> TRACK WIDTH

ADDITIVE TREATED AREA

ADDITIVE TREATED AREA

BOOST SETTING

LOW MEDIUM HIGH

GEARING

PINION / SPUR GEAR = DRIVE RATIO

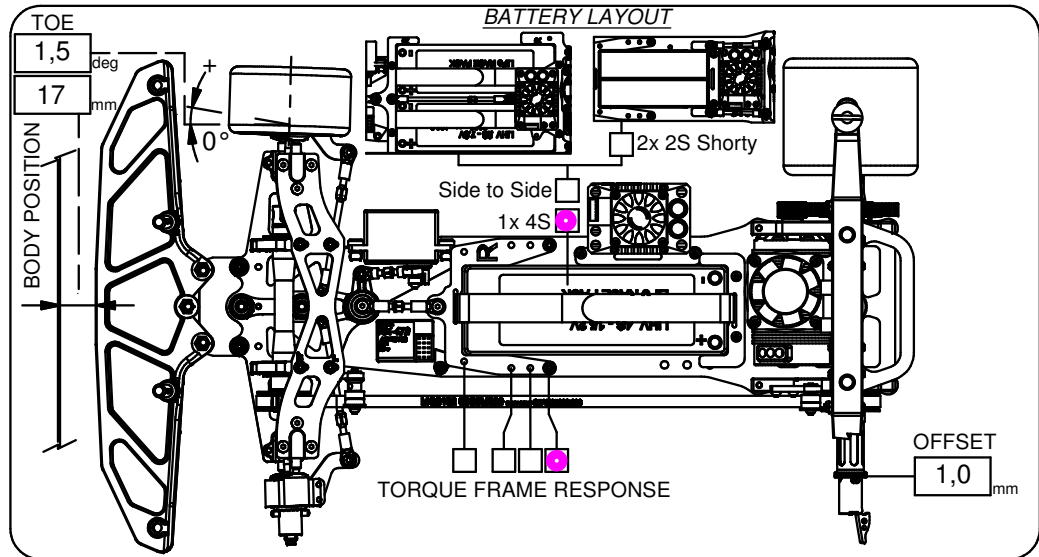
MOTOR

ESC

BATTERY

BODY

- NOTES -



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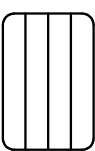
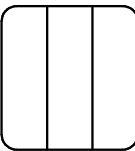
C8 SR BLANK SET-UP SHEET

Capricorn RC

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TRACK	<input type="text"/>	QUALIFYING POSITION	<input type="text"/>
NAME	<input type="text"/>	BEST LAP	<input type="text"/> /sec
CITY/ COUNTRY	<input type="text"/>	RACE POSITION	<input type="text"/>
CONTACT	<input type="text"/>	RACE LENGTH	<input type="text"/> /min

TRACK SURFACE	<input type="checkbox"/> CARPET	<input type="checkbox"/> ASPHALT	
TRACK LAYOUT	<input type="checkbox"/> TECHNICAL	<input type="checkbox"/> MIXED	<input type="checkbox"/> FAST
TRACTION	<input type="checkbox"/> LOW	<input type="checkbox"/> MEDIUM	<input type="checkbox"/> HIGH

AXLE POSITION	ACK	CASTER	TURBO	TURBO DELAY
<input type="text"/> mm	<input type="text"/> mm	<input type="text"/> °	<input type="text"/> %	<input type="text"/> /sec
FRONT REAR SHIM		7° 9° 12° 14°		

FRONT	TIRES	REAR
<input type="text"/>	B BRAND	<input type="text"/>
<input type="text"/>	SHORE	<input type="text"/>
<input type="text"/>	DIAMETER	<input type="text"/>
<input type="text"/>	TRACK WIDTH	<input type="text"/>
	ADDITIVE TREATED AREA	

BOOST SETTING

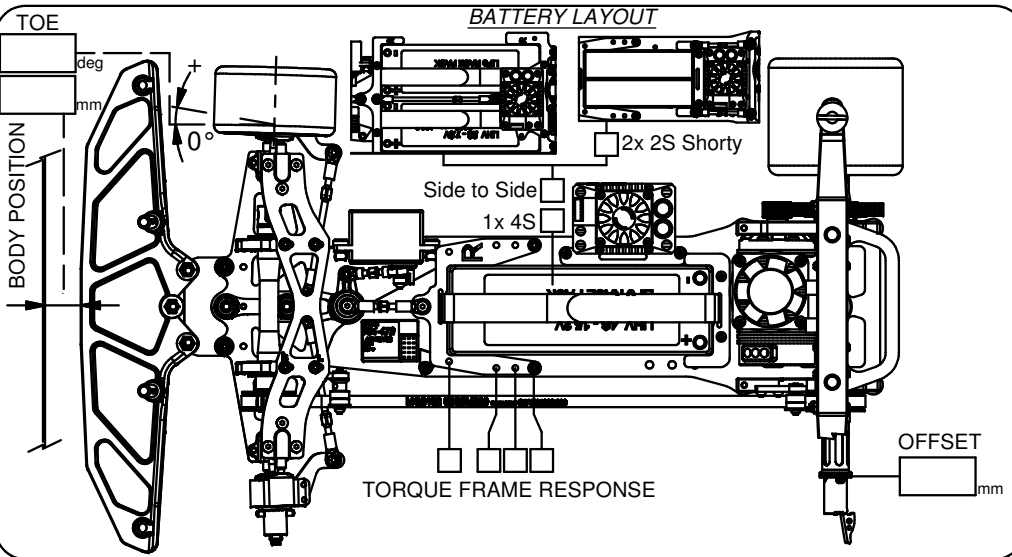
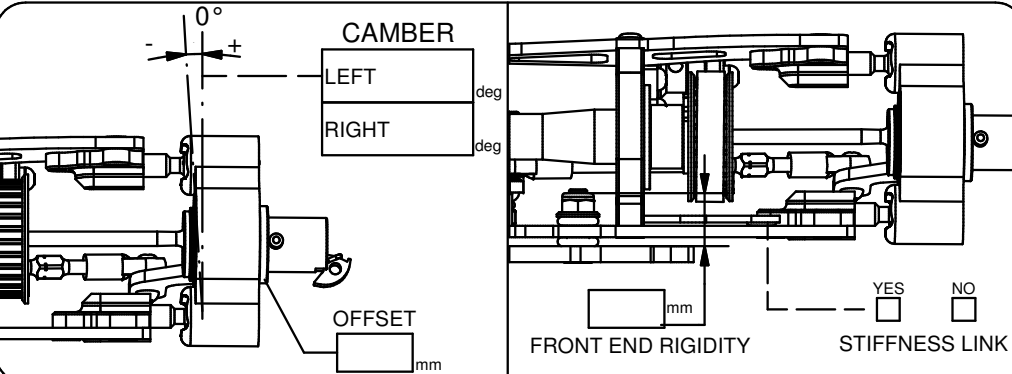
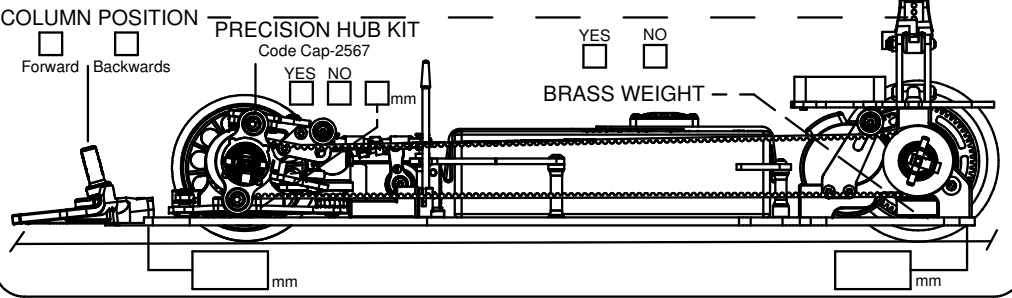
0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LOW	MEDIUM				HIGH	

GEARING

<input type="text"/> /T	<input type="text"/> T	<input type="text"/>
PINION	SPUR GEAR	DRIVE RATIO

MOTOR	<input type="text"/>
ESC	<input type="text"/>
BATTERY	<input type="text"/>
BODY	<input type="text"/>

- NOTES -



Frame Clearance mm																		
Tire ø	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75			
Rear Axle Position																		
High	/	/	/	/	4,00	4,50	5,00	5,50	6,00	6,50	7,00	7,50	8,00	8,50	9,00			
Medium	/	/	/	/	3,50	4,00	4,50	5,00	5,50	6,00	6,50	7,00	7,50	8,00	8,50			
Low	/	/	/	/	3,00	3,50	4,00	4,50	5,00	5,50	6,00	6,50	7,00	7,50	8,00			
Front Axle Position																		
High	1	4,20	4,70	5,20	5,70	6,20	6,70	7,20	7,70	8,20	8,70	/	/	/	/			
	2	3,60	4,10	4,60	5,10	5,60	6,10	6,60	7,10	7,60	8,10	/	/	/	/			
	4	3,30	3,80	4,30	4,80	5,30	5,80	6,30	6,80	7,30	7,80	/	/	/	/			
Low	3	2,70	3,20	3,70	4,20	4,70	5,20	5,70	6,20	6,70	7,20	/	/	/	/			
REAR																	FRONT	

RATIO	Spur										
Pinion	60	61	62								
15	4,000	4,067	4,133								
16	3,750	3,813	3,875			Brushless Motor:	1900kv				
17	3,529	3,588	3,647			Battery:	4S (2 x 2S HV 8400mAh 120C)				
18	3,333	3,389	3,444								
Rollout mm/RPM											
Tire ø	65	66	67	68	69	70	71	72	73	74	75
Pinion	Spur					60					
15	51,051	51,836	52,622	53,407	54,193	54,978	55,763	56,549	57,334	58,120	58,905
16	54,454	55,292	56,130	56,968	57,805	58,643	59,481	60,319	61,156	61,994	62,832
17	57,858	58,748	59,638	60,528	61,418	62,308	63,199	64,089	64,979	65,869	66,759
18	61,261	62,204	63,146	64,089	65,031	65,974	66,916	67,859	68,801	69,744	70,686
	Spur					61					
15	50,214	50,987	51,759	52,532	53,304	54,077	54,849	55,622	56,394	57,167	57,939
16	53,562	54,386	55,210	56,034	56,858	57,682	58,506	59,330	60,154	60,978	61,802
17	56,909	57,785	58,660	59,536	60,411	61,287	62,162	63,038	63,914	64,789	65,665
18	60,257	61,184	62,111	63,038	63,965	64,892	65,819	66,746	67,673	68,600	69,527
	Spur					62					
15	49,404	50,164	50,924	51,684	52,444	53,205	53,965	54,725	55,485	56,245	57,005
16	52,698	53,509	54,319	55,130	55,941	56,751	57,562	58,373	59,184	59,994	60,805
17	55,991	56,853	57,714	58,576	59,437	60,298	61,160	62,021	62,883	63,744	64,605
18	59,285	60,197	61,109	62,021	62,933	63,845	64,757	65,670	66,582	67,494	68,406
Zero Boost / zero Turbo Speed calculation example											
	Kv motor	1900	RPM								
	Rollout	60,411	mm	V=	104,680	Km/h	$V(km/h) = \text{Volt batt} \times \text{Kv motor} \times \text{rollout} \times 0,00006$				

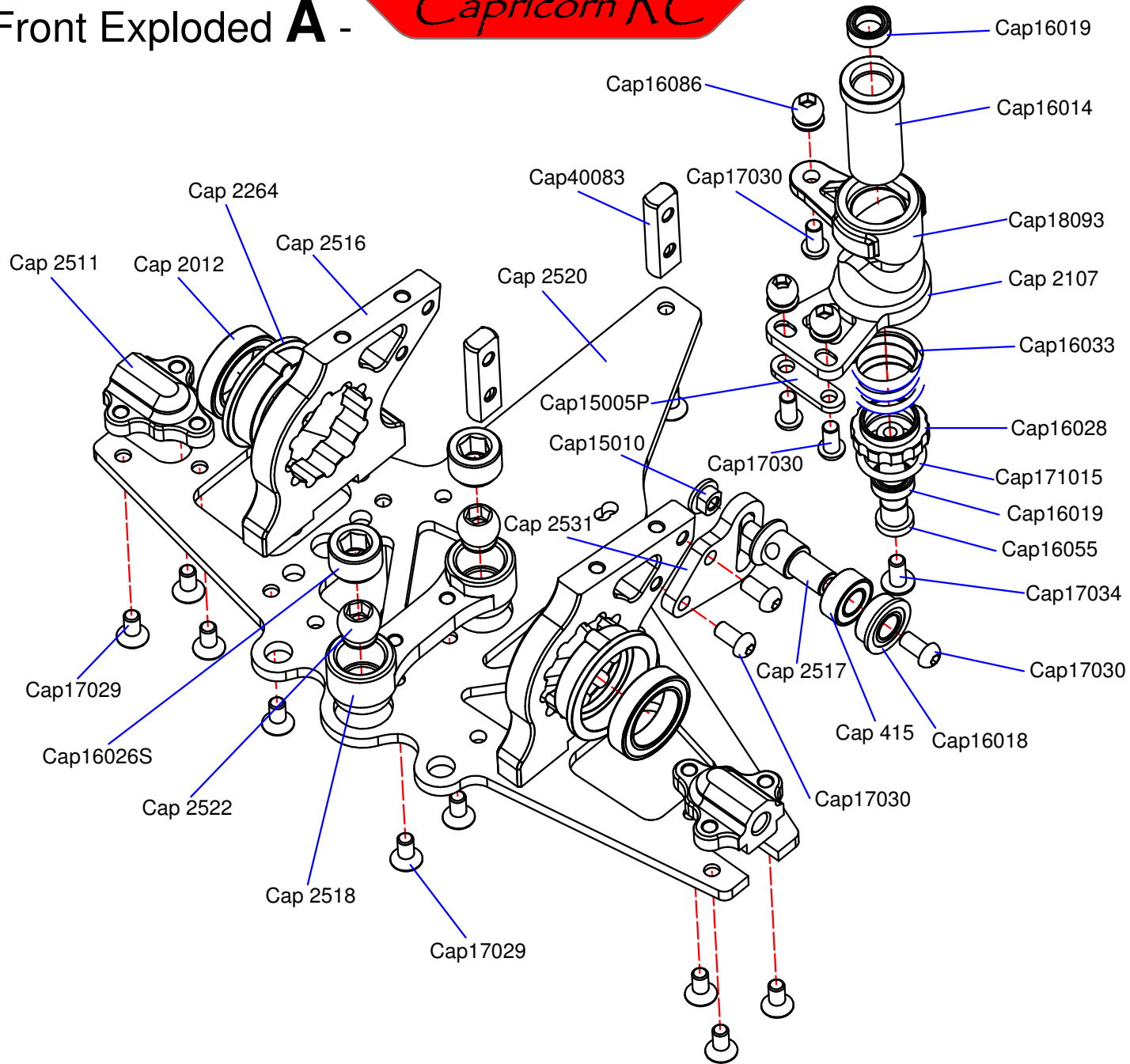
Blank lined area for writing notes.

Made in Italy



- Front Exploded **A** -

Capricorn RC

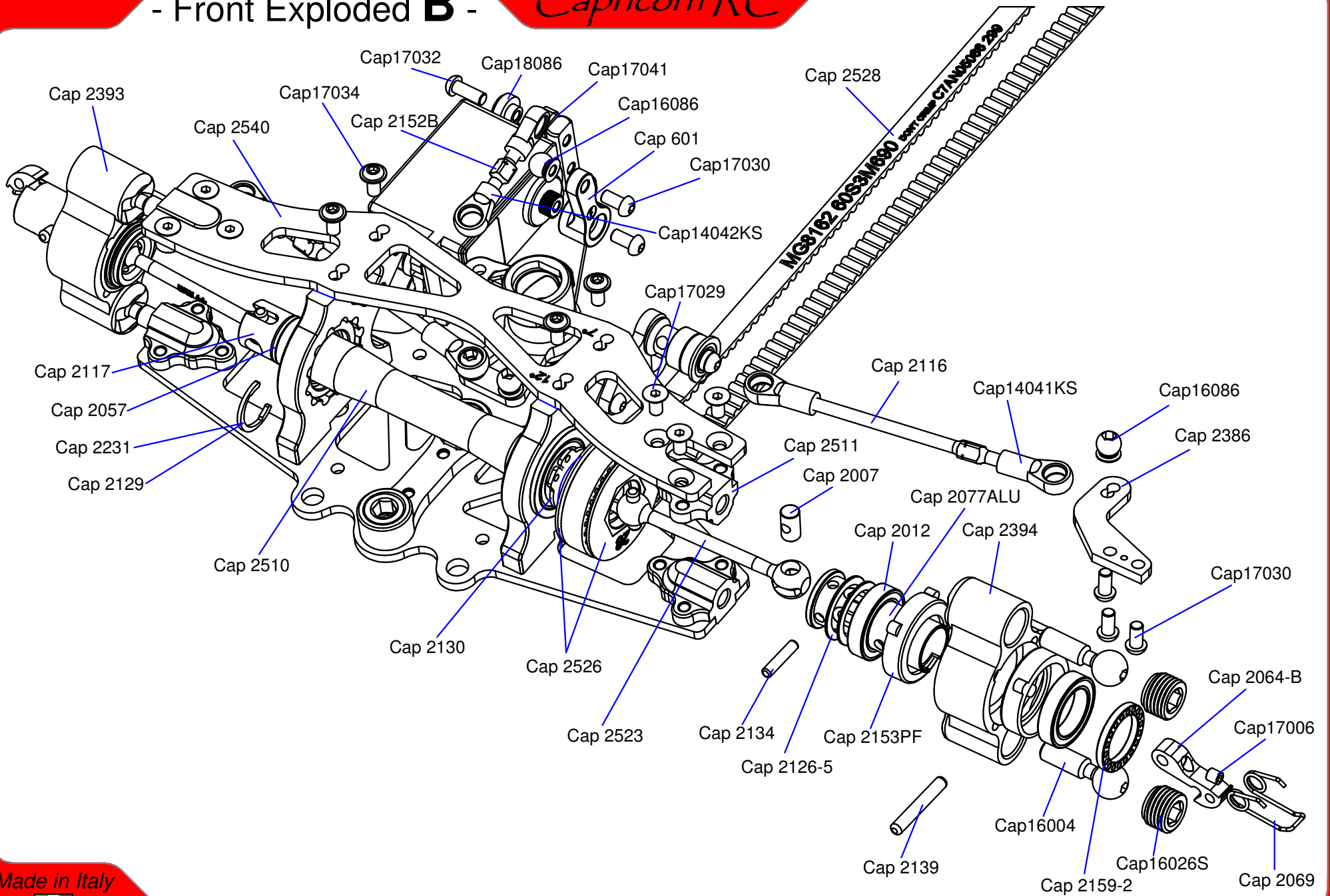


Made in Italy



- Front Exploded **B** -

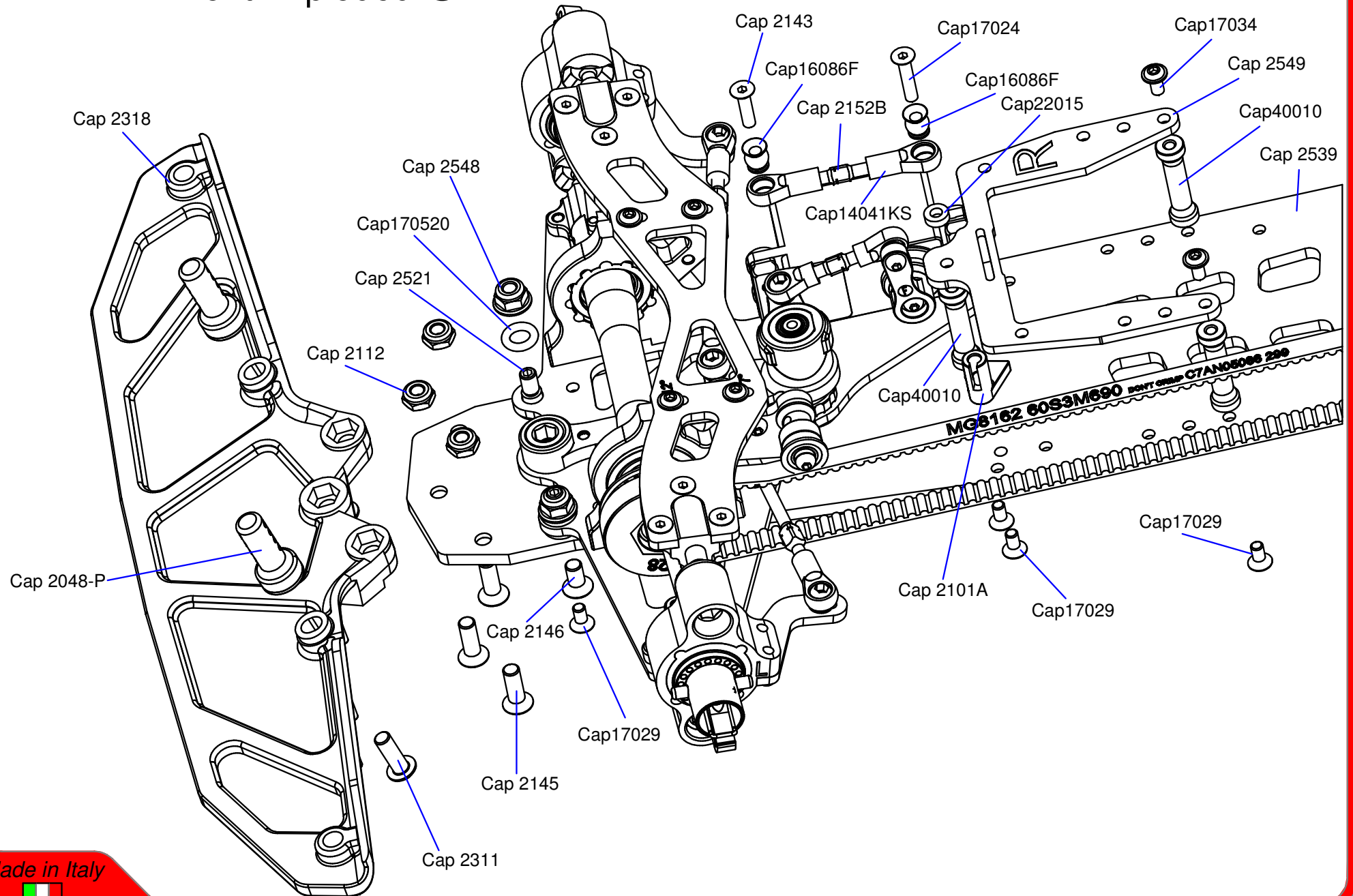
Capricorn RC



Made in Italy

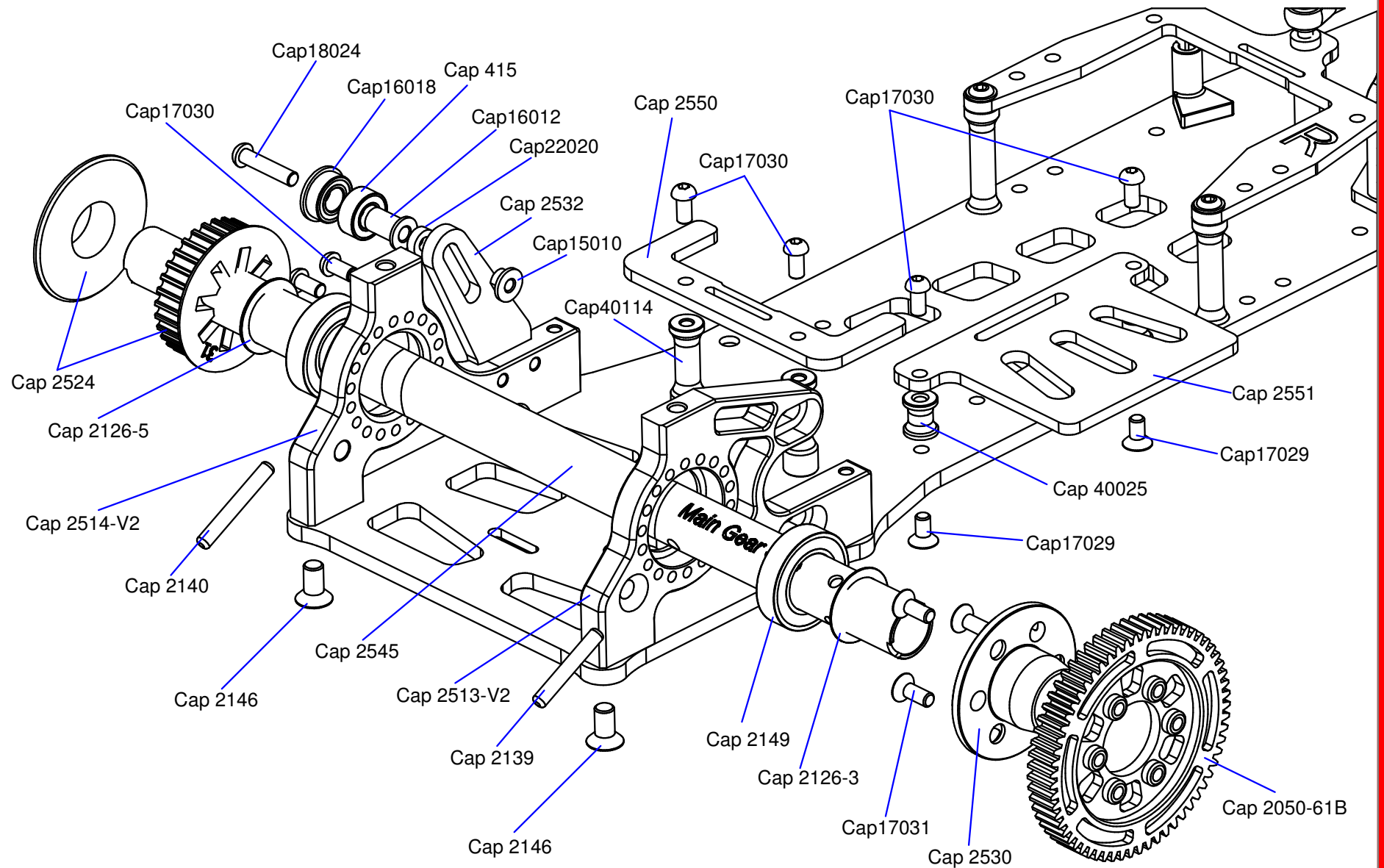


- Front Exploded **C** - *Capricorn RC*



- Rear Exploded **D** -

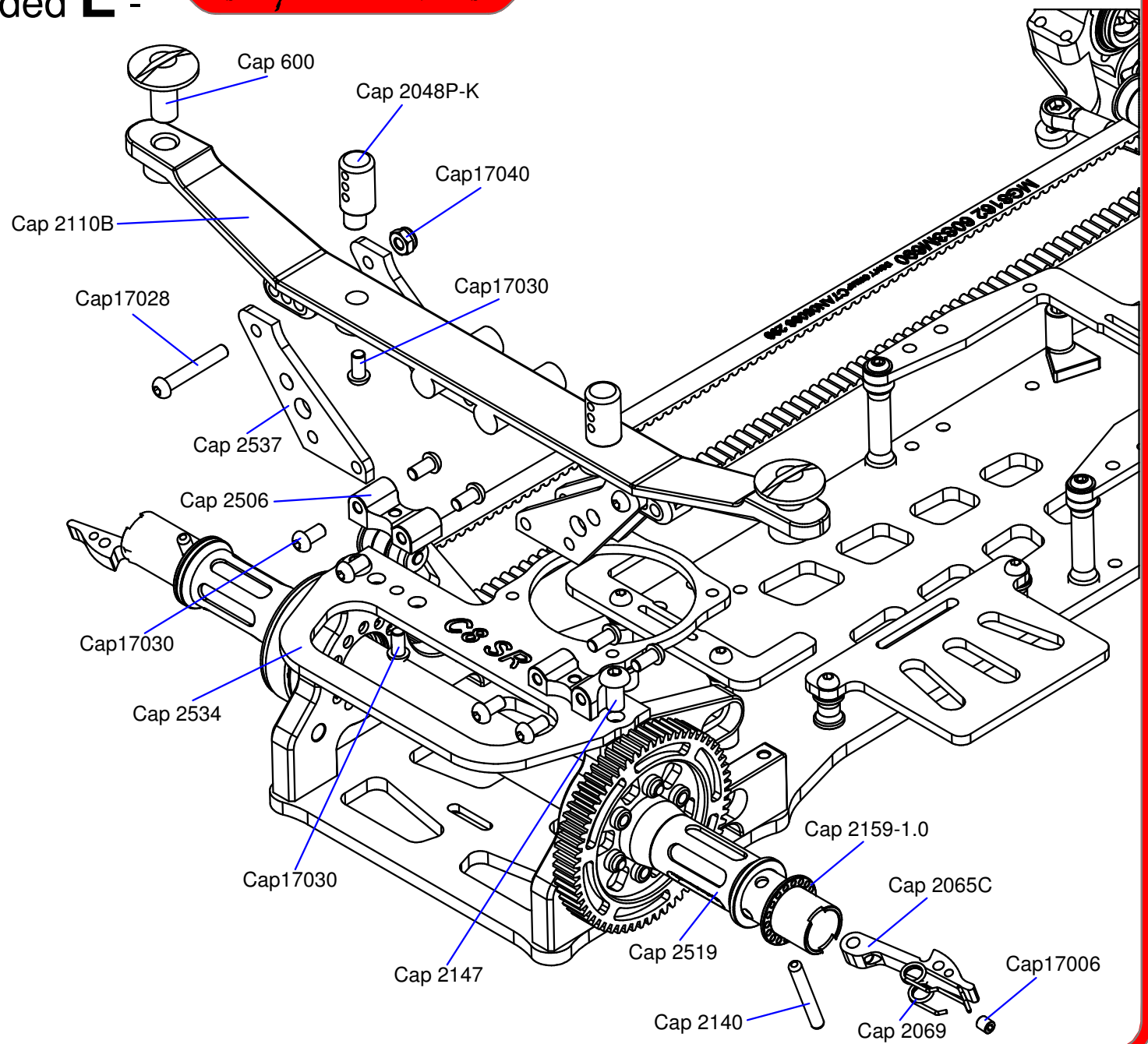
Capricorn RC



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- Rear Exploded **E** - *Capricorn RC*



- Exploded **F** -
Electronic Equipment

Capricorn RC

BRUSHLESS MOTOR
1900KV HW30101901
2200KV HW30401903

FAN SCREWS
Cap17026

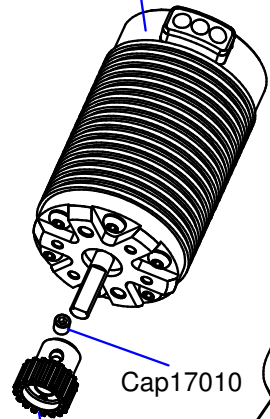
40X40 FAN
WTF-4010

4S LIPO BATTERY
IP9243128D8R9-4S1P

IP5043128D8R9-4S2P

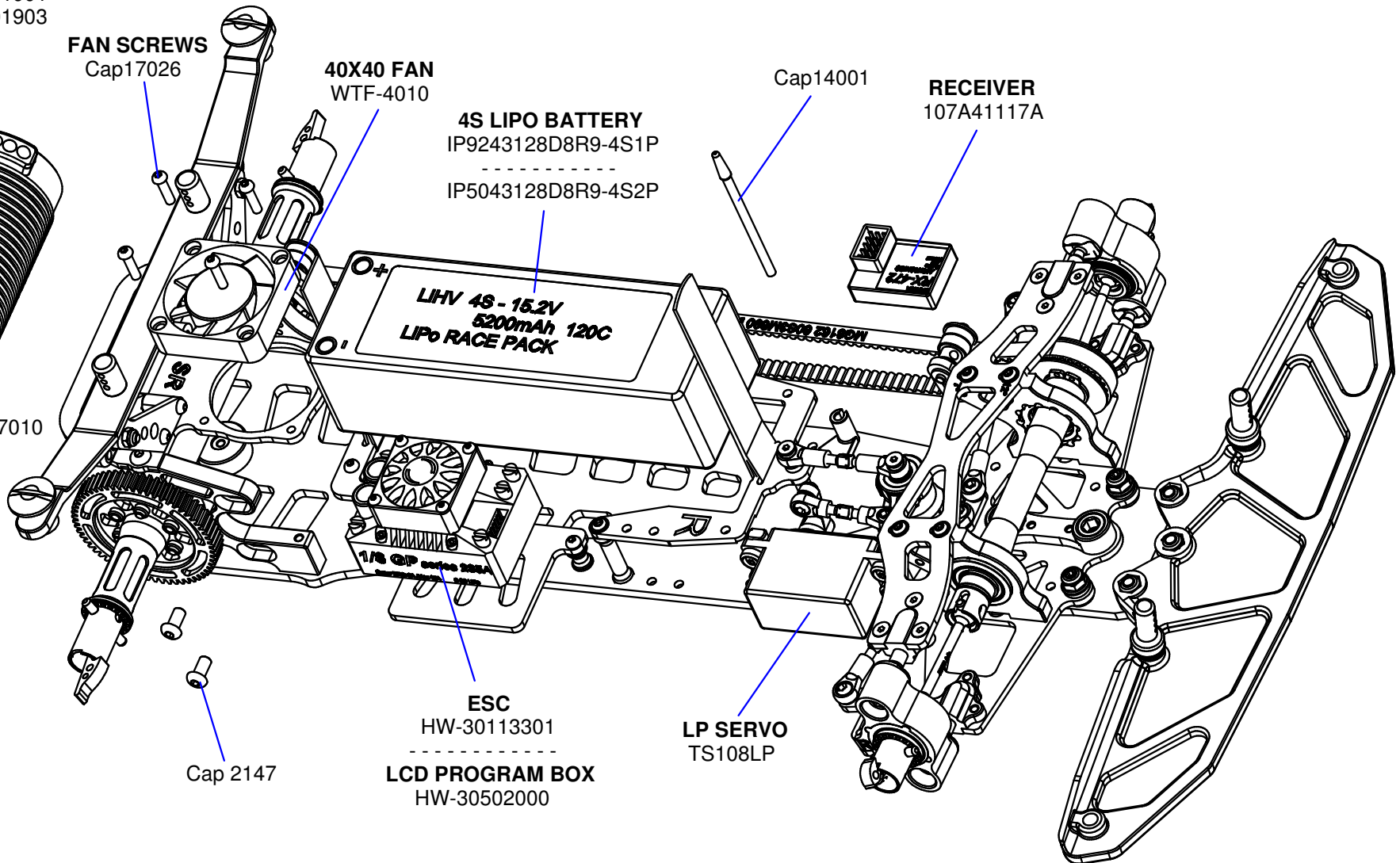
Cap14001

RECEIVER
107A41117A



Cap17010

PINION
Cap 2541
Cap 2542
Cap 2543
Cap 2544



Cap 2147

ESC
HW-30113301

LCD PROGRAM BOX
HW-30502000

LP SERVO
TS108LP

Made in Italy

